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DEPARTMENT OF THE INTERIOR
HUBERT WORK, Secretary

UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

BULLETIN 746

# GEOLOGIC LITERATURE ON NORTH AMERICA
# 1785–1918

BY

JOHN M. NICKLES

## PART I. BIBLIOGRAPHY

WASHINGTON
GOVERNMENT PRINTING OFFICE
1923

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# CONTENTS.

Page.
Introduction 1
List of abbreviations 3
Serials 5
Bibliography 23

# GEOLOGIC LITERATURE ON NORTH AMERICA, 1785-1918.

By John M. Nickles.

## Part I. BIBLIOGRAPHY.

### INTRODUCTION.

The bibliography forming Part I of this compilation includes papers relating to the geology, paleontology, petrology, and mineralogy of North America—specifically, the United States, the Dominion of Canada and Newfoundland, the Arctic regions north of the continent, Greenland, Mexico, Central America, Panama, and the West Indies, including Trinidad—and also the Hawaiian Islands. Geographic and descriptive writings and accounts of travels with incidental mention of geologic facts are not included. Textbooks published in America and works general in character by American authors are given, but general papers by foreign writers are excluded unless they have appeared in American publications. Papers by American writers on the geology of other parts of the world are not listed.

The papers of each author are listed in chronologic order by years with no definite order of arrangement in a year. For reference from Part II, the index (Bulletin 747), the last two figures of the year of publication, with a letter added if there is more than one paper in the year, have been used as a number placed in black-faced type before a title. The date on the title page of a publication has been accepted as the date of issue unless it is known to be grossly erroneous; in that case the real date has been added in brackets. In references to publications appearing in parts the date of the part cited has been used if it is given. If no date appears on a publication, the year of issue has been supplied and placed in brackets at the end of the citation; for a few publications, even the approximate year of issue could not be ascertained.

This compilation is in the main a cumulation of the series of bibliographies of North American geology issued by the United States Geological Survey as Bulletins 44 (1886), 75 (1887–89), 91 (1890), 99 (1891), included in 127 (1732–1891); 130, 135, 146, 149, 156, 162, and 172, cumulated in 188 and 189 (1892–1900); 203, 221, 240, and 271, cumulated in 301 (1901–1905); and 372 (1906–07), 409 (1908), 444 (1909), 495 (1910), 524 (1911), 545 (1912), 584 (1913), 617 (1914), 645 (1915), 665 (1916), 684 (1917), and 698 (1918), not previously cumulated. Many titles not found in these bulletins have been added as a result of the examination of the bibliographies on particular subjects issued by the Survey and many other special bibliographies and from other sources. It is hoped that little of importance has been overlooked.

The magnitude of the work has compelled the elimination of all but the title of the paper, from which unimportant parts have been omitted, and the citation, which has been greatly abbreviated. In the citation of serials a colon immediately follows the number of the volume and is immediately followed by the figures for the inclusive pages. If the volume is in a numbered series other than the first, this number is in parentheses immediately before the volume number. The year of publication is placed in parentheses at the end of the citation. Between the pages and the date "il" means figures of fossils and "map" that a geologic map forms part of the paper or accompanies it. For independent publications the number of pages, the place of publication and date, not in parentheses, are given. An explanation of the abbreviations used follows.

## LIST OF ABBREVIATIONS.

| | |
|---|---|
| Abh | Abhandlungen |
| abst | abstract |
| Ac | academy |
| Agr | agriculture, etc. |
| Ak | Akademie |
| Ala | Alabama |
| Alta | Alberta |
| Am | America, etc. |
| An | annals, annual, etc. |
| Anz | Anzeiger |
| App | appendix |
| Ariz | Arizona |
| Ark | Arkansas |
| As | association |
| B | bulletin, boletín, etc. |
| B C | British Columbia |
| Bd | board |
| Beitr | Beiträge |
| Ber | Berichte |
| Bien | biennial |
| Bot | botany, etc. |
| Br | branch |
| Brit | British |
| Bur | bureau |
| c | copyright |
| C R | compte rendu |
| Cal | California |
| Can | Canada; Canadian |
| Centr | Centralblatt |
| Cin | Cincinnati |
| Co | county |
| Col | collection |
| Coll | college |
| Colo | Colorado |
| Cong | congress |
| Conn | Connecticut |
| cos | counties |
| Contr | contributions |
| D C | District of Columbia |
| Del | Delaware |
| Deut | deutsch, etc. |
| Diss | dissertation |
| Dp | department |
| Doc | document, etc. |
| Ed | edition, editor, etc. |
| Eng | engineering |
| Ex | executive |
| Exp Sta | experiment station |
| Extr | extract |
| Fla | Florida |
| G | geology, etc. |
| G S | geological survey |
| g s | geological series |
| Ga | Georgia |
| Geog | geography, etc. |
| Ges | Gesellschaft |
| H Ex Doc. | House executive document |
| Hdbk | handbook |
| Hist | history |
| I | institute, institution |
| l | illustrated with figures of fossils |
| Ill | Illinois |
| Inaug | inaugural |
| Ind | Indiana |
| Ind T | Indian Territory |
| Inst | institute, institution |
| Int | international |
| J | journal, etc. |
| Jb | Jahrbuch |
| Jber | Jahresbericht |
| Jg | Jahrgang |
| K | kaiserlich, königlich, etc. |
| Kans | Kansas |
| Ky | Kentucky |
| L | London |
| La | Louisiana |
| M | mining; mineral |
| Mag | magazine |
| Manit | Manitoba |
| Mass | Massachusetts |
| Mber | Monatsberichte |
| Md | Maryland |
| Me | Maine |
| Mem | memoirs |
| Mex | Mexico |
| Mich | Michigan |
| Min | mineral |
| Miner | mineralogy, etc. |
| Minn | Minnesota |
| Miss | Mississippi |

| | |
|---|---|
| Mitt | Mitteilungen |
| Mo | Missouri; monthly |
| Mon | monograph |
| Mont | Montana |
| Mus | museum |
| N | new; north; etc. |
| N B | New Brunswick |
| N C | North Carolina |
| n d | no date of publication given |
| N Dak | North Dakota |
| N H | New Hampshire; natural history |
| N J | New Jersey |
| N Mex | New Mexico |
| n p | no place of publication given; nouvelle période |
| N S | Nova Scotia |
| n s | new series |
| N Sc | natural science |
| N W Ter | Northwest Territories |
| N Y | New York |
| Nat | national; naturalist |
| Nebr | Nebraska |
| Nev | Nevada |
| Newf | Newfoundland |
| Oc P | occasional papers |
| Okla | Oklahoma |
| Ont | Ontario |
| Oreg | Oregon |
| P | papers |
| P E I | Prince Edward Island |
| P P | professional paper |
| Pa | Pennsylvania |
| Phila | Philadelphia |
| pls | plates |
| port | portrait |
| pp | pages |
| Pr | proceedings |
| priv pr | privately printed |
| priv pub | private publication |
| pt | part |
| Pub | publications |
| Q | quarterly |
| Que | Quebec |
| R | royal. |
| R I | Rhode Island. |
| rev ed | revised edition. |
| Rp | report. |
| Rv | review, revista, etc. |
| s | series |
| S | Senate; south |
| S C | South Carolina |
| S Dak | South Dakota |
| Sask | Saskatchewan |
| Sc | science, scientific, etc. |
| sc s | science series |
| Sch | school |
| sec | section |
| sess | session |
| St | Saint; State |
| St L | St. Louis |
| Szb | Sitzungsberichte |
| Tech | technology, etc. |
| Tenn | Tennessee |
| Tex | Texas |
| Tr | transactions |
| Transl | translated, etc. |
| U S | United States |
| Univ | university |
| *v* | volume |
| Va | Virginia |
| Ver | Verein |
| Verh | Verhandlungen |
| Vt | Vermont |
| vol | volume |
| W I | West Indies |
| W Va | West Virginia |
| Wash | Washington |
| Wis | Wisconsin |
| Wyo | Wyoming |
| Y Bk | yearbook |
| Zool | zoology, etc. |
| Zs | Zeitschrift |
| Ztg | Zeitung |

## SERIALS.

[The abbreviation used in the citation is printed in black-faced type.]

**Ac Cienc Méd Habana, An** Academia de ciencias médicas, físicas y naturales de la Habana [Cuba], Anales.

**Ac Gioenia Sc Nat Catania, B.** Accademia Gioenia de scienze naturali in Catania. Bollettino delle sedute.

**Ac Imp Lyon, Cl Sc, Mém** Académie impériale des sciences, belles-lettres, et arts de Lyon, Classe des sciences, Mémoires.

**Ac Mex Cienc, An** Academia mexicana de ciencias exactas, físicas, y naturales, Anuario. México, D. F.

**Ac N Sc Phila, J; Pr; Min G Sec, Pr** Academy of Natural Sciences of Philadelphia, Journal; Proceedings; Mineralogical and Geological Section, Proceedings.

**Ac R Sc Bruxelles, B** Académie royale des sciences . . . de Bruxelles, Bulletins.

**Ac Sc Kansas City, Tr** Academy of Science of Kansas City [Mo.], Transactions, vol. 1 (1898) [no more published]

**Ac Sc Paris, C R** Académie des sciences, Paris, Comptes rendus.

**Ac Sc Sioux City, Pr** Academy of Science and Letters of Sioux City, Iowa, Proceedings.

**Ac Sc St. L, Tr** Academy of Science of St. Louis, Transactions.

**Ala G S** Alabama, Geological Survey of. Montgomery and University.

**Ala Ind Sc Soc, Pr** Alabama Industrial and Scientific Society, Proceedings. University.

**Albany Inst, Pr; Tr** Albany [N. Y.] Institute, Proceedings; Transactions.

**Allgem Berg- u Hüttenm Ztg.** Allgemeine berg- und hüttenmännische Zeitung. Quedlinburg

**Alpina Americana;** published by the American Alpine Club, Philadelphia.

**Alpine J** Alpine Journal. London.

**Am Ac Arts, Pr; Mem** American Academy of Arts and Sciences, Proceedings; Memoirs. Boston.

**Am As, Pr; Mem** American Association for the Advancement of Science, Proceedings; Memoirs.

**Am As Museums, Pr** American Association of Museums, Proceedings.

**Am As Petroleum G, B** American Association of Petroleum Geologists, Bulletin.

**Am Bur Geog, B** American Bureau of Geography, Bulletin. Winona, Wis.

**Am Chem Soc, J** American Chemical Society, Journal. New York.

**Am G** American Geologist. Minneapolis.

**Am G As, B** American Geological Association, Bulletin. Athens, Tenn.

**Am Geog Soc, B; J** American Geographical Society of New York, Bulletin; Journal.

**Am Geog Stat Soc, J** American Geographical and Statistical Society, Journal. New York.

**Am I M Eng, Tr; B** American Institute of Mining Engineers, Transactions; Bulletin. New York.

**Am J Agr** American Journal of Agriculture and Science. Albany, N. Y.

**Am J Conch** American Journal of Conchology. Philadelphia.

**Am J Sc** American Journal of Science. New Haven, Conn.

**Am M Cong** American Mining Congress. See also International Mining Congress.

**Am Meteorological J** American Meteorological Journal Ann Arbor, Mich.

**Am Micro Soc, Pr** American Microscopical Society, Proceedings.

**Am Miner J** American Mineralogical Journal (Bruce), vol. 1, 1814 [no more published]. New York.

**Am Mineralogist** American Mineralogist. Philadelphia and Lancaster, Pa.

**Am Mo Mag** American Monthly Magazine. New York.

**Am Mus J** American Museum Journal (American Museum of Natural History).

**Am Mus N H, B; Mem** American Museum of Natural History, Bulletin; Memoirs. New York.

**Am Nat** American Naturalist. Salem, Mass., and elsewhere.

**Am Ph Soc, Tr; Pr** American Philosophical Society, Transactions; Proceedings. Philadelphia.

**Am Q J Agr** American Quarterly Journal of Agriculture and Science (later American Journal of Agriculture and Science). Albany, New York.

**Am Q Micro J** American Quarterly Microscopical Journal. New York.

**Am Scenic and Historic Preservation Soc, An Rp** American Scenic and Historic Preservation Society, Annual Report. Albany, N. Y.

**Am Soc Civil Eng, Tr** American Society of Civil Engineers, Transactions. New York.

**An Bot** Annals of Botany. London.

**An G Paléont** Annales de géologie et de paléontologie. Palermo, Italy.

**An Géog** Annales de géographie. Paris.

**An Iowa** Annals of Iowa. Iowa City.

**An M Belgique** Annales des mines de Belgique. Bruxelles.

**An Mag N H** Annals and Magazine of Natural History. London.

**An Mex Cienc** Anales mexicanos de ciencias . . . México, D. F.

**An Mines** Annales des mines. Paris.

**An Paléont** Annales de paléontologie. Paris.

**An Physik** Annalen der Physik und Chemie (J. C. Poggendorff). Leipzig.

**An Sc, Cleveland** Annals of Science, Cleveland, Ohio.

**An Sc Géol** Annales des sciences géologiques. Paris.

**An Sc Nat, Zool** Annales des sciences naturelles, Zoologie. Paris.

**An Trav Pub Belgique** Annales des travaux publics de Belgique. Bruxelles.

**Anat Anz** Anatomischer Anzeiger. Jena.

**Appalachia.** Boston.

**Applied Sc** Applied Science. Toronto, Ont.

**Arch Anat, Phys, wiss Med** Archiv für Anatomie, Physiologie, und wissenschaftliche Medicin. Berlin.

**Arch Bergbau** Archiv für Bergbau und Hüttenwesen (Karsten). Berlin.

**Arch Miner** Archiv für Mineralogie, Geognosie, Bergbau und Hüttenkunde (Karsten; Dechen). Berlin.

**Arch Naturg** Archiv für Naturgeschichte (Wiegmann). Berlin.

**Arch Sc Phys Nat** Archives des sciences physiques et naturelles (Bibliothèque universelle de Genève). Geneva.

**Archives of Science Orleans Co [Vt] Soc N Sc, Tr** Archives of Science and Orleans County [Vt.] Society of Natural Sciences, Transactions. Newport, Vt.

**Ariz St Bur Mines, B** Arizona State Bureau of Mines, Bulletin. Tucson.

**Ark G S** Arkansas, Geological Survey of. Little Rock.

**As Am G, Rp** Association of American Geologists and Naturalists, Reports.

**As Am Geog, An** Association of American Geographers, Annals.

**As Eng Soc, J** Association of Engineering Societies, Journal. Philadelphia.

**As Franç, C R** Association française pour l'avancement des sciences, Compte Rendu. Paris.

**Astron Soc Pacific, Pub** Astronomical Society of the Pacific, Publications. San Francisco.

**Augustana Libr Pub** Augustana Library Publications. Rock Island, Ill.

**Australasian As, Rp** Australasian Association for the Advancement of Science, Reports. Sydney.

**B Am Pal** Bulletins of American Paleontology. Ithaca, N. Y.

**B C Bur Mines, An Rp; B; B C Minister Mines, An Rp** British Columbia Bureau of Mines, Annual Report; Bulletin; British Columbia Minister of Mines, Annual Report.

**B Sc Nat** Bulletin des sciences naturelles et de géologie (Férussac). Paris.

**Baltimore Med Phil Lyc** Baltimore [Md.] Medical and Philosophical Lycoeum.

**Beitr Geoph** Beiträge zur Geophysik. Leipzig.

**Berg- u Hüttenm Ztg** Berg- und hüttenmännische Zeitung. Leipzig.

**Berkshire Hist Sc Soc, Four papers** of Berkshire Historical and Scientific Society. Pittsfield, Mass.

**Bernice Pauahi Bishop Mus, Oc P** Bernice Pauahi Bishop Museum, Occasional Papers. Honolulu, H. I.

**Biol B** Biological Bulletin. Boston.

**Biol Centralbl** Biologisches Centralblatt. Erlangen.

**Biol Soc Wash, Pr** Biological Society of Washington, D. C., Proceedings.

**Birmingham Ph Soc, Pr** Birmingham [England] Philosophical Society, Proceedings.

**Bol Agr** Boletín de agricultura, minería é industrias. México, D. F.

**Bol Minero** Boletín minero. Órgano del Departamento de minas de la Dirección de minas y petróleo. México, Secretaría de fomento, colonización é industria, México, D. F.

**Bol Petróleo** Boletín del petróleo. México, D .F.

**Boston J N H** Boston Journal of Natural History.

**Boston J Ph** Boston Journal of Philosophy and the Arts.

**Boston Soc N H, Pr; Oc P; Mem; Anniv Mem** Boston Society of Natural History, Proceedings; Occasional Papers; Memoirs; Anniversary Memoirs.

**Bot Gaz** Botanical Gazette. Chicago.

**Brit As, Rp** British Association for the Advancement of Science, Report. London.

**Brookville Soc N H, B** Brookville [Ind.] Society of Natural History, Bulletin.

**Buffalo Soc N Sc, B** Buffalo [N. Y.] Society of Natural Sciences, Bulletin.

**Bur Am Ethnology, B** Bureau of American Ethnology, Bulletin. Washington, D. C.

**Cal Ac Sc; Pr; Oc P; Mem** California Academy of Sciences; Proceedings; Occasional Papers; Memoirs. San Francisco.

**Cal J Tech** California Journal of Technology. Berkeley, Cal.

**Cal Phys Geog Club, B** California Physical Geography Club, Bulletin. Berkeley, Cal.

**Cal St M Bur, An Rp; B** California State Mining Bureau, Annual Report; Bulletin. San Francisco.

**[Cal] Univ Chronicle** [California, University of] University Chronicle. Berkeley, Cal.

**Cal, Univ, Dp G, B** California, University of, Publications, Department of Geology, Bulletin. Berkeley, Cal.

**Cal, Univ, Pub Geog** California, University of, Publications in Geography.

**Cal, Univ, Seism Sta, B** California, University of, Publications, Seismographic Stations, Bulletin.

**Cambridge Ph Soc, Pr** Cambridge [England] Philosophical Society, Proceedings.

**Can Alpine J** Canadian Alpine Journal. Banff, Alta.

**Can, Dp Interior, Rp Chief Astronomer** Canada, Department of the Interior, Report of the Chief Astronomer, Ottawa.

**Can Dp Interior, Sup Mines, Rp** Canada, Department of the Interior, Superintendent of Mines, Report.

**Can Entomologist** Canadian Entomologist. London, Ont.

**Can G S; An Rp; Sum Rp; Mem; Mus B; Victoria Mem Mus, B** Canada, Geological Survey; Annual Report; Summary Report; Memoirs; Museum Bulletin; Victoria Memorial Museum, Bulletin.

**Can Inst, Pr** Canadian Institute Proceedings. Toronto.

**Can J** Canadian Journal. Toronto.

**Can M Inst, B; Q B; J** Canadian Mining Institute, Monthly Bulletin; Quarterly Bulletin; Journal. Montreal.

**Can M J** Canadian Mining Journal. Toronto and Montreal.

**Can M Rv** Canadian Mining Review. Ottawa.

**Can, Mines Br, Sum Rp** Canada, Department of Mines, Mines Branch, Summary Report. Ottawa, Ont.

**Can Nat** Canadian Naturalist and Geologist and Proceedings of the Natural History Society of Montreal.

**Can Peat Soc, B** Canadian Peat Society, Bulletin. Ottawa.

**Can Rec N H** Canadian Record of Natural History and Geology. Montreal.

**Can Rec Sc** Canadian Record of Science. Montreal.

**Can Sc Mo** Canadian Science Monthly. Kentville, N. S.

**Canal Record.** Ancon, Canal Zone, Panama.

**Carnegie Inst Wash, Y Bk; Pub** Carnegie Institution of Washington [D. C.], Year Book; Publications.

**Carnegie Mus, An; Mem** Carnegie Museum, Annals; Memoirs. Pittsburgh, Pa.

**Cassier's Mag** Cassier's Magazine. New York.

**Central Ohio Sc As, Pr** Central Ohio Scientific Association of Urbana, Ohio; Proceedings.

**Centralbl Miner** Centralblatt für Mineralogie, Geologie, und Paläontologie. Stuttgart.

**Century Mag** Century Illustrated Monthly Magazine. New York.

**Ch News** Chemical News, London.

**Chicago Ac Sc; B; Sp Pub; Pr; G N H S, B; N H S, B** Chicago Academy of Sciences; Bulletin; Special Publication; Proceedings. Geological and Natural History Survey, Bulletin; later Natural History Survey, Bulletin.

**Chicago, Univ. Dec Pub; Walker Mus, Contr** Chicago, University of, Decennial Publications; Walker Museum, Contributions.

**Cin Q J Sc** Cincinnati Quarterly Journal of Science, edited by S. A. Miller.

**Cin Soc N H, J** Cincinnati Society of Natural History, Journal.

**Cleveland Ac, Pr** Cleveland Academy of Natural Science, Proceedings.

**Coal Age.** New York.

**Colliery Eng** Colliery Engineer. Scranton, Pa.

**Colo Bur Mines, Rp** Colorado Bureau of Mines, Report.

**Colo Coll Pub, sc s; Colo Coll Studies** Colorado College Publications, science series; Colorado College Studies. Colorado Springs.

**Colo G S, B; Rp** Colorado Geological Survey, Bulletin; Report. Denver.

**Colo Sch Mines, An Rp; Bien Rp; B; Mag; Q** Colorado School of Mines, Annual Report; Biennial Report; Bulletin; Magazine; Quarterly. Golden.

**Colo Sc Soc, Pr** Colorado Scientific Society, Proceedings. Denver.

**Colo St Bur Mines, Rp** Colorado State Bureau of Mines, Report. Denver.

**Colo, Univ, Studies** Colorado, University of, Studies. Boulder.

**Cong Arts and Sc (St. Louis, 1904)** Congress of Arts and Science (St. Louis, 1904).

**Conn Ac, Tr; Mem** Connecticut Academy of Arts and Sciences, Transactions; Memoirs. New Haven.

**Conn G S, B** Connecticut Geological Survey, Bulletin. Hartford.

**Contr Sc** Contributions to Science. Charles City, Iowa.

**Copenhagen, Univ, Miner G Mus, Contr Miner** Copenhagen, University, Mineralogical and Geological Museum, Contributions to Mineralogy.

**Cosmos.** Paris.

**Costa Rica, B Fomento** Costa Rica, Boletín de fomento. San José.

**Costa Rica, Centro de Estudios Sismológicos, An** Costa Rica, Centro de estudios sismológicos, Anales. San José.

**Cuba, Dir Montes, B Minas** Cuba, Dirección de montes y minas, Boletín de minas. Habana.

**Dansk G Forening, Medd** Dansk Geologisk Forening, Meddelelser. Köbenhavn.

**Davenport Ac Sc, Pr** Davenport [Iowa] Academy of Natural Sciences, Proceedings. Later Davenport Academy of Sciences.

**Delaware Co Inst Sc, Pr** Delaware County Institute of Science, Proceedings. Media, Pa.

**Denison Univ, Sc Lab, B** Denison University, Scientific Laboratories, Bulletin. Granville, Ohio.

**Deut G Ges, Zs; Monatsb** Deutsche geologische Gesellschaft, Zeitschrift; Monatsberichte. Berlin.

**Deut Geog Blätter** Deutsche geographische Blätter. Herausgegeben von der Geographischen Gesellschaft in Bremen.

**Deut Oesterr Alpen-Ver, Zs** Deutscher und oesterreichischer Alpen-Verein, Zeitschrift. München [etc.].

**Deut Rundschau** Deutsche Rundschau. Berlin.

**Drury Coll, Bradley G Field Sta, B** Drury College, Bradley Geological Field Station, Bulletin. Springfield, Mo.

**Dublin Q J Sc** Dublin Quarterly Journal of Science.

**Durham, Univ, Ph Soc, Pr** Durham, University of, Philosophical Society, Proceedings.

**E. M. Mus G Coll N J, Contr** E. M. Museum of Geology and Archaeology of the College of New Jersey, Contributions. Princeton, N. J.

**Ec G** Economic Geology. Lancaster, Pa.

**Edinb G Soc, Tr** Edinburgh Geological Society, Transactions.

**Edinb N Ph J; Edinb Ph J** Edinburgh New Philosophical Journal. Preceded by Edinburgh Philosophical Journal.

**Elisha Mitchell Sc Soc, J** Elisha Mitchell Scientific Society, Journal. Chapel Hill, N. C.

**Elliott Soc N H Charleston, Pr** Elliott Society of Natural History of Charleston [S. C.], Proceedings.

**Eng As South, Tr** Engineering Association of the South, Transactions. Nashville, Tenn.

**Eng Club Phila, Pr.** Engineers' Club of Philadelphia, Proceedings.

**Eng M J** Engineering and Mining Journal. New York.

**Eng Mag** Engineering Magazine. New York.

**Eng Soc W Pa, Pr** Engineers' Society of Western Pennsylvania, Proceedings. Pittsburgh.

**Eng Soc York, Pr** Engineering Society of York [Pa.], Proceedings

**Entom News** Entomological News. Philadelphia.

**España, Com Mapa G, B** España, Comisión del mapa geológico, Boletín. Madrid.

**Essex Co N H Soc, J** Essex County Natural History Society, Journal. Salem, Mass.

**Essex Inst, B; Pr** Essex Institute, Bulletin; Proceedings. Salem, Mass.

**Fed Can M Inst, J** Federated Canadian Mining Institute (later, Canadian Mining Institute), Journal.

**Fed Inst M Eng, Tr** Federated Institution of Mining Engineers, Transactions. Newcastle-upon-Tyne.

**Field (Col) Mus, Pub, g s; zool s** Field Columbian Museum (later, Field Museum), Publication, geological series; zoological series. Chicago.

**Fla G S, An Rp** Florida Geological Survey, Annual Report. Tallahassee.

**Forum, The.** New York.

**[France], Comm Sc Mex, Arch** [France], Commission scientifique du Mexique, Archives. (Archives de la Commission scientifique du Mexique, publiées sous les auspices du Ministère de l'instruction publique), 3 vols., Paris, 1865–67.

**Frankfurter Ver Geog, Jber** Frankfurter Verein für Geographie und Statistik, Jahresbericht. Frankfort-on-the-Main.

**Franklin Inst, J** Franklin Institute, Journal. Philadelphia, Pa.

**Freunde Naturw, Ber (Haidinger)** Freunde der Naturwissenschaften in Wien, Berichte über die Mittheilungen (W. Haidinger).

**G As London, Pr** Geologists' Association, London, Proceedings.

**G Fören Stockholm, Förh** Geologiska Föreningens i Stockholm, Förhandlingar.

**G M Soc Am Univ, Y Bk** Geological and Mining Society of American Universities, Year Book and Directory. Stanford University, Cal.

**G Mag** Geological Magazine. London.

**G Pa** Geology of Pennsylvania, by H. D. Rogers, 2 vols, maps. Philadelphia, 1858.

**G Pal Abh** Geologische und paleontologische Abhandlungen. Jena.

**G Reichs-Mus Leiden, Samm** Geologische Reichs-Museum in Leiden, Sammlungen.

**G Rundschau** Geologische Rundschau. Leipzig.

**G Sc B** Geological and Scientific Bulletin. Published by the Texas State Geological and Scientific Association. Vol. 1, 1888–89. Houston, Texas.

**G Soc Am, B** Geological Society of America, Bulletin. Rochester, N. Y., and elsewhere.

**G Soc Dublin, J** Geological Society of Dublin, Journal.

**G Soc Glas, Tr** Geological Society of Glasgow, Transactions.

**G Soc London, Tr; Pr; Q J** Geological Society of London, Transactions; Proceedings; Quarterly Journal.

**G Soc Pa, Tr** Geological Society of Pennsylvania, Transactions, vol. 1 (1835) [no more published]. Philadelphia.

**G Soc Tokyo, J** Geological Society of Tokyo [Japan], Journal.

**Ga G S, B** Georgia, Geological Survey, Bulletin. Atlanta.

**Gen M As Que, J.** General Mining Association of the Province of Quebec, Journal. Ottawa, Ont.

**Geog Ges Hamburg, Mitt** Geographische Gesellschaft in Hamburg, Mittheilungen.

**Geog Ges München, Jber** Geographische Gesellschaft in München, Jahresbericht.

**Geog J** Geographical Journal. London.

**Geog Soc Chicago, B** Geographic Society of Chicago, Bulletin.

**Geog Soc Phila, B** Geographical Society of Philadelphia, Bulletin.

**Geologist.** 2 vols., 1842, 1843, edited by Charles Maxon. London.

**Ges Erdk Berlin, Verh; Zs** Gesellschaft für Erdkunde zu Berlin, Verhandlungen; Zeitschrift.

**Ges Naturf Freunde Berlin, Szb** Gesellschaft naturforschender Freunde zu Berlin, Sitzungsberichte.

**Ges Naturw Marburg, Schrift** Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg, Schriften.

**Hamilton As, J Pr; Hamilton Sc As, J Pr** Hamilton [Ont.] Association (later Hamilton Scientific Association), Journal and Proceedings.

**Harper's Mag** Harper's New Monthly Magazine New York.

**Harvard Coll, Mus C Z, B; An Rp; Mem** Harvard College, Museum of Comparative Zoology, Bulletin; Annual Report; Memoirs. Cambridge, Mass.

**Harvard Univ B** Harvard University Bulletin. Cambridge, Mass.

**Hist Sc Soc Manit, Tr** Historical and Scientific Society of Manitoba, Transactions. Winnipeg.

**Hist Soc Mont, Contr** Historical Society of Montana, Contributions. Helena.

**Ill Ac Sc, Tr** Illinois Academy of Science, Transactions.

**Ill Coal M Investigations, B** Illinois Coal Mining Investigations, Cooperative Agreement, Bulletin. Urbana, Ill.

**Ill G S, B** Illinois State Geological Survey, Bulletin. Urbana.

**Ill G S, Ec G** Illinois, Geological Survey of, Economical Geology (reprinted from vols. 1–6). Springfield.

**Ill N H Soc, Tr** Illinois Natural History Society, Transactions, vol. 1 (1861), second edition [no more published]. Springfield, Ill.

**Ill Soc Eng** Illinois Soc of Engineers and Surveyors, Report of annual meeting. Chicago.

**Ill St Ac Sc, Tr** Illinois State Academy of Science (later Illinois Academy of Science), Transactions.

**Ill St Lab N H, B** Illinois State laboratory of Natural History, Bulletin. Urbana, Ill.

**Ill St Mus N H, B** Illinois State Museum of Natural History, Bulletin, nos. 1–12. Springfield.

**Ill, Univ, B; Univ Studies.** Illinois, University of, Bulletin; University Studies. Urbana.

**Imp Earthquake Investigation Com, B** Imperial Earthquake Investigation Committee, Bulletin. Tokyo, Japan.

**Ind Ac Sc, Pr** Indiana Academy of Science, Proceedings. Indianapolis.

**Ind G S, An Rp; Ind, Dp Stat G, An Rp; Ind, Dp G N H, An Rp; Ind, Dp G N Res, An Rp** Indiana Geological Survey, 1st—8–9–10th Annual Reports, 1869–1879; Indiana, Department of Statistics and Geology, 1st and 2d Annual Reports; Indiana, Department of Geology and Natural History, 11th–16th Annual Reports; Indiana, Department of Geology and Natural Resources, 17th—, Annual Reports. Indianapolis.

**Inst Físico-geog Nac Costa Rica, An** Instituto físico-geográfico nacional de Costa Rica, Anales. San José.

**Inst M Eng, Tr** Institution of Mining Engineers, Transactions. Newcastle-upon-Tyne.

**Inst M Met, Tr** Institution of Mining and Metallurgy, Transactions. London.

**Inst Mex Minas Met, Inf** Instituto mexicano de minas y metalurgia, Informes y memorias. México, D. F.

**Inst Petroleum Tech, J** Institution of Petroleum Technologists, Journal. London.

**Int Cong Zool, Pr** International Congress of Zoology, Proceedings.

**Int G Cong, Guide Exc; C R; Rp; Guide Book** International Geological Congress, Guide des excursions; Comptes rendus; Report; Guide Book.

**Int Geog Cong, Rp; Verh** International Geographical Congress, Report; Verhandlungen.

**Int M Cong** International Mining Congress; later, American Mining Congress.

**Int Q** International Quarterly. New York.

**Int Rv** International Review. New York.

**Int Zool Cong** International Zoological Congress.

**Iowa Ac Sc, Pr** Iowa Academy of Sciences, Proceedings. Des Moines.

**Iowa G S** Iowa Geological Survey. Des Moines.

**Iowa Hist Rec** Iowa Historical Record. Iowa City.

**Iowa Institutions, B** Iowa State Institutions, Bulletin. Des Moines.

**Iowa Nat** Iowa Naturalist. Iowa City.

**Iowa, Univ, Lab N H, B** Iowa, State University, Laboratories of Natural History, Bulletin. Iowa City, Iowa.

**Iron Steel Inst, J** Iron and Steel Institute, Journal. London.

**Ist Bologna, R Ac Sc, Cl Sc Fis, Mem** Istituto di Bologna, Reale Accademia delle scienze, Classe di scienze fisiche, Memorie.

**Italia, R Comitato G, B** Italia, Real Comitato geologico, Bollettino. Rome.

**J Anat Phys** Journal of Anatomy and Physiology. London.

**J Bot** Journal of Botany. London.

**J Chem Phys** Journal für Chemie und Physik (Schweigger). Halle

**J G** Journal of Geology. Chicago, Ill.

**J Geog** Journal of Geography. Lancaster, Pa. and elsewhere.

**J Indus Eng Chem** Journal of Industrial and Engineering Chemistry. Easton, Pa.

**J Mines** Journal des mines. Paris.

**J Morph** Journal of Morphology. Boston.

**J Phys** Journal de physique, de chimie, d'histoire naturelle et des arts. Paris.

**J Phys Chem** Journal of Physical Chemistry. Ithaca, N. Y.

**J Sch Geog** Journal of School Geography. New York.

**J Zool** Journal de Zoologie. Paris.

**Jb Miner** Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde (Leonhard und Bronn). Heidelberg.

**Johns Hopkins Univ Cir** Johns Hopkins University Circular. Baltimore, Md.

**K Ak Wiss, Mat-nat Cl, Szb** Kaiserliche Akademie der Wissenschaften, Mathematische - naturwissenschaftliche Classe, Sitzungsberichte. Wien.

**K-Bayer Ak Wiss München, Mat-phys Kl, Szb; Abh** Königlich-bayerische Akademie der Wissenschaften zu München, Mathematisch-physikalische Klasse, Sitzungsberichte; Abhandlungen.

**K-Böhm Ges Wiss, Mat-nat Cl, Szb** Königlich-böhmische Gesellschaft der Wissenschaften in Prag, Mathematisch-naturwissenschaftliche Classe, Sitzungsberichte.

**K Danske Vid Selsk, Skrift** Kongelige danske Videnskabernes Selskabs, Skrifter. Copenhagen.

**K Ges Wiss Göttingen, Abh** Königliche Gesellschaft der Wissenschaften zu Göttingen, Abhandlungen.

**K-k G Reichsanstalt, Verh; Jb** Kaiserlich-königliche geologische Reichsanstalt, Verhandlungen; Jahrbuch, Wien.

**K-k Geog Ges Wien, Mitt** Kaiserlich-königliche geographische Gesellschaft in Wien, Mittheilungen.

**K-k Naturh Hofmus, An** Kaiserlich-königliche naturhistorische Hofmuseum, Annalen. Wien.

**K-k Zool-bot Ges Wien, Verh** Kaiserlich - königliche zoologisch-botanische Gesellschaft in Wien, Verhandlungen.

**K-Preuss Ak Wiss Berlin, Mber; Szb; Abh** Königlich - preussische Akademie der Wissenschaften zu Berlin, Monatsbericht; Sitzungsberichte; Abhandlungen.

**K-Sächs Ges Wiss Leipzig, Mat-phys Cl, Ber** Königlich-sächsische Gesellschaft der Wissenschaften zu Leipzig, Mathematisch - physische Classe; Berichte über die Verhandlungen.

**K Svenska Vet-Ak Hdl; Öfv** Kongliga svenska Vetenskaps-Akademiens Handlingar; Öfversigt til Handlingar. Stockholm.

**Kans Ac Sc, Tr** Kansas Academy of Science, Transactions. Topeka.

**Kans St Bd Agr, Tr; An Rp; Bien Rp** Kansas State Board of Agriculture, Transactions; Annual Report; Biennial Report. Topeka.

**Kans, Univ G S** Kansas, The University Geological Survey. Topeka.

**Kans Univ Q** Kansas University Quarterly. Lawrence.

**Kans Univ, Sc B** Kansas University, Bulletin. Science Bulletin. Lawrence.

**Kansas City Rv Sc** Kansas City [Mo.] Review of Science and Industry. See also Western Review of Science and Industry.

**Kansas City Scientist.** Kansas City, Mo.

**Ky G S; Rp Prog; B** Kentucky Geological Survey; Report of Progress; Bulletin. Frankfort.

**L Sup M Inst, Pr** Lake Superior Mining Institute, Proceedings.

**La Géog** La Géographie. Paris.

**La Naturaleza.** México, D. F.

**La St Exp Sta, G Agr La** Louisiana State Experiment Stations, Geology and Agriculture of Louisiana. Baton Rouge.

**La St Univ, An Rp Sup** Louisiana State University, Annual Report of Superintendent. New Orleans.

**Lackawanna Inst, Pr** Lackawanna Institute of History and Science, Proceedings and Collections. Scranton, Pa.

**Leeds G As, Tr** Leeds Geological Association, Transactions.

**Leland Stanford Jr Univ, Pub** Leland Stanford Junior University, Publications.

**Linn Soc, J, Zool** Linnean Society, Journal, Zoology. London.

**Lit Hist Soc Quebec, Tr** Literary and Historical Society of Quebec, Transactions.

**Lit Ph Soc N Y, Tr** Literary and Philosophical Society of New York, Transactions.

**Liverpool G As, Tr [J]** Liverpool Geological Association, Transactions [vol. 9 called Journal].

**Liverpool G Soc, Pr** Liverpool Geological Society, Proceedings.

**Liverpool Geog Soc, Tr An Rp** Liverpool Geographical Society, Transactions and Annual Report of the Council.

**Lyc N H N Y, An; Pr** Lyceum of Natural History of New York, Annals; Proceedings. Later New York Academy of Sciences.

**M J** Mining Journal. London.

**M Mag** Mining Magazine. London.

**M Mag** Mining Magazine; later Mining and Statistic Magazine. New York.

**M Met Soc Am, B** Mining and Metallurgical Society of America, Bulletin. New York.

**M Metal** Mining and Metallurgy. New York.

**M Reporter** Mining Reporter. Denver.

**M Sc Press** Mining and Scientific Press. San Francisco, Cal.

**M Science.** Mining Science. Denver.

**M Soc N S, J** Mining Society of Nova Scotia, Journal. Halifax.

**M Stat Mag** See Mining Magazine.

**M World** Mining World. Later, Mining and Engineering World. Chicago.

**Maclurean Lyc, Contr** Maclurean Lyceum, Contributions. Philadelphia.

**Mag N H** Magazine of Natural History (Loudon). London.

**Malacol Soc L, Pr** Malacological Society of London, Proceedings. London.

**Manchester G (M) Soc, Tr** Manchester Geological (later, and Mining) Society, Transactions.

**Manchester Lit Ph Soc, Mem** Manchester Literary and Philosophical Society, Memoirs and Proceedings.

**Mazama.** Portland, Oreg.

**McClure's Mag** McClure's Magazine. New York.

**McGill Univ, Peter Redpath Mus** McGill University, Montreal, Peter Redpath Museum.

**Md Ac Sc, Tr** Maryland Academy of Sciences, Transactions. Baltimore.

**Md G S, Sp Pub** Maryland Geological Survey, Special Publication.

**Me Bd Agr, An Rp** Maine Board of Agriculture, Annual Report. Augusta.

**Me St Water Storage Comm, An Rp** Maine State Water Storage Commission, Annual Report. Augusta.

**Med Grönland** Meddelelser om Grönland. Copenhagen.

**Med Phys J** Medical and Physical Journal. London.

**Med Soc Pa, Tr** Medical Society of the State of Pennsylvania, Transactions. Philadelphia.

**Meriden Sc As, Tr** Meriden [Conn.] Scientific Association, Proceedings and Transactions.

**Méx, Com G, B; I G, B; Par** México, Comisión geológica, Boletín; Instituto geológico, Boletín; Parergones.

**Mex M J** Mexican Mining Journal. México, D. F.

**Méx, Min Fomento, An** Mexico, Ministerio de fomento, Anales.

[**Méx**], **Sec Fomento, Bol** [México], Secretaría de fomento, Boletín.

**Mich Ac Sc, Rp; An Rp** Michigan Academy of Science, Report; Annual Report. Lansing.

**Mich G S, Rp** Michigan Geological Survey; Michigan State Board of Geological Survey, Report. Lansing.

**Mich Miner** Michigan Miner. Saginaw.

**Mich Univ, Mus Zool, Oc P** Michigan, University, Museum of Zoology, Occasional Papers. Ann Arbor.

**Middlebury Hist Soc, Papers and Pr** Middlebury [Vt.] Historical Society, Papers and Proceedings.

**Min B** Mining Bulletin. Published bimonthly by the Department of Mining Engineering of the Pennsylvania State College.

**Min Mex** El Minero mexicano. México, D. F.

**Miner Mag** Mineralogical Magazine and Journal of the Mineralogical Society. London.

**Miner Mitt (Tschermak) (K-k G Reichsanstalt, Jb)** Mineralogische Mittheilungen (Tschermak). Also as Beilage to Kaiserlich-königliche geologische Reichsanstalt, Jahrbuch. Wien.

**Mining.** Journal of the Northwest Mining Association. Spokane, Wash.

**Minn Ac N Sc, B** Minnesota Academy of Natural Sciences, Bulletin. Minneapolis.

**Minn G S** Minnesota, Geological and Natural History Survey. Minneapolis.

**Minn Sch Mines, Exp Sta B** Minnesota School of Mines, Experiment Station, Bulletin. Minneapolis.

**Minn, Univ, Q B** Minnesota, University of, Quarterly Bulletin. Minneapolis.

**Miss Agr Exp Sta, B** Mississippi Agricultural Experiment Station, Bulletin. Agricultural College.

**Miss G S, B** Mississippi Geological Survey, Bulletin. Agricultural College.

**Mo G S; Mo Bur G Mines** Missouri. Geological Survey; Missouri Bureau of Geology and Mines. Jefferson City.

**Mo Micro J** Monthly Microscopical Journal. London.

**Mo, Univ, B sc s; Mus B; Studies** Missouri. University of, Bulletin, science series; Museum Bulletin; Studies. Columbia, Mo.

**Mo, Univ, Sch Mines, B** Missouri. University of, School of Mines and Metallurgy, Bulletin. Rolla.

**Mont, Univ, B** Montana, University of, Bulletin. Missoula.

**Monthly Am J G** Monthly American Journal of Geology and Natural Science [G. W. Featherstonhaugh]. Philadelphia.

**Morph Jb** Morphologisches Jahrbuch. Leipzig.

**Mus d'Hist Nat, An; B** Muséum national d'histoire naturelle, Annales; Bulletin. Paris.

**Mus Nac Méx, An** Museo nacional de México, Anales. México, D. F.

**Mus R d'Hist Nat Belgique, B** Musée royal d'histoire naturelle de Belgique, Bulletin. Bruxelles.

**N Am Rev** North American Review. New York.

**N C G S, B** North Carolina Geological Survey, Bulletin.

**N Dak Agr Coll Exp Sta, Bien Rp** North Dakota Agricultural College Experiment Station, Biennial Report. Fargo.

**N Dak G S, Bien Rp** North Dakota Geological Survey, Biennial Report. Bismarck.

**N Engl Inst M Eng, Tr** North of England Institute of Mining Engineers (later, North of England Institute of Mining and Mechanical Engineers), Transactions, Newcastle-upon-Tyne.

**N H Rv** Natural History Review. London.

**N H Soc N B, B** Natural History Society of New Brunswick, Bulletin. St John.

**N J, Dp Conservation, An Rp** New Jersey, Department of Conservation and Development, Annual Report. Trenton, N. J.

**N J, G S, An Rp; Final Rp; Pal; G N J** New Jersey, Geological Survey, Annual Report; Annual Report of the State geologist; Final Report of the State geologist; Paleontology; Geology of New Jersey (Cook), 1868 Trenton.

**N Jb; Beil Bd** Neues Jahrbuch für Mineralogie, Geologie, und Paläontologie; Beilage Band. Stuttgart.

**N Mex, Univ, B g s** New Mexico, University, Bulletin, geological series. Albuquerque.

**N S, Dp Mines, Rp** Nova Scotia, Department of Mines, Report. Halifax.

**N S Inst N Sc, Pr Tr** Nova Scotia Institute of Natural Science, Proceedings and Transactions. Halifax.

**N S Lit Sc Soc, Tr** Nova Scotia Literary and Scientific Society, Transactions. Halifax.

**N Y Ac Sc, An; Tr; Mem** New York Academy of Sciences, Annals; Transactions; Memoirs

**N Y, Bd Agr, Mem** New York, Board of Agriculture, Memoirs. Albany.

**N Y Bot Garden, B** New York Botanical Garden, Bulletin.

**N Y Comm St Res Niagara, An Rp** New York (State), Commissioners of the State Reservation at Niagara, Annual Report. Albany.

**N Y G S** New York Geological Survey. Albany.

**N Y Med Phys J** New York Medical and Physical Journal.

**N Y Micro Soc, J** New York Microscopical Society, Journal.

**N Y Miner Club, B** New York Mineralogical Club, Bulletin.

**N Y St Agr Soc, Tr** New York State Agricultural Society, Transactions. Albany.

**N Y St Cab, An Rp** New York State Cabinet of Natural History, Annual Report of the Regents of the University. Albany.

**N Y St G, An Rp** New York, State Geologist, Annual Report. Albany.

**N Y St Mus, An Rp** New York State Museum of Natural History, Annual report. Albany.

**Nassauischer Ver Naturk, Jb** Nassauischer Verein für Naturkunde, Jahrbücher. Wiesbaden.

**Nat Ac Sc, Biog Mem; Mem; Pr** National Academy of Sciences, Biographical Memoirs; Memoirs; Proceedings. Washington, D. C.

**Nat Gas As Am, Pr** Natural Gas Association of America, Proceedings.

**Nat Geog Mag** National Geographic Magazine. Washington, D. C.

**Nat Geog Soc, Nat Geog Mon** National Geographic Society. National Geographic Monographs, vol 1, 10 nos., 1895. Washington, D. C.

**Nat Inst, B Pr; Pr, n s** National Institution (later, Institute) for the Promotion of Science, Bulletin of the Proceedings; Proceedings, new series. Washington, D. C.

**Nat Sc** Natural Science. London.

**Nat Sc As Staten Island, Pr** Natural Science Association of Staten Island [N. Y.], Proceedings.

**Nat Sc J** Natural Science Journal, vol. 1, nos. 1 and 2 [no more published], 1897. New Bedford, Mass.

**Naturaleza (La)** Periódico científico de la Sociedad mexicana de historia natural. México, D. F.

**Naturaliste Can** Le Naturaliste canadien. Quebec.

**Naturalist's Leisure Hour and Monthly Bulletin. A. E. Foote.** Philadelphia.

**Nature.** London.

**Naturf Ges Leipzig, Szb** Naturforschende Gesellschaft zu Leipzig, Sitzungsberichte.

**Naturh Ver Preus Rheinl, Verh** Naturhistorischer Verein der preussischen Rheinlande und Westphalens, Verhandlungen. Bonn.

**Naturh Ver Preus Rheinl, Verh Niederrhein Ges Bonn, Szb)** Naturhistorischer Verein der preussischen Rheinlande ..., Verhandlungen (Niederrheinische Gesellschaft für Natur- und Heilkunde in Bonn, Sitzungsberichte).

**Naturh-med Ver Heidelberg, Verh** Naturhistorisch-medicinischer Verein zu Heidelberg, Verhandlungen.

**Naturw Abh** Naturwissenschaftliche Abhandlungen (Haidinger). Wien.

**Naturw Ges Isis Dresden, Szb; Abh** Naturwissenschaftliche Gesellschaft Isis in Dresden, Sitzungsberichte; Abhandlungen.

**Naturw Ver Halle, Jber** Naturwissenschaftlicher Verein [für Sachsen und Thüringen] in Halle, Jahresberichte.

**Naturw Ver Neuvorpommern und Rügen in Greifswald, Mitt** Naturwissenschaftlicher Verein für Neuvorpommern und Rügen in Greifswald, Mittheilungen.

**Naturw Ver Steiermark, Mitt** Naturwissenschaftlicher Verein für Steiermark, Mitteilungen. Graz.

**Naturw Wochensch** Naturwissenschaftliche Wochenschrift. Berlin.

**Nautilus.** Philadelphia.

**Nebr Ac Sc, Pub; Pr** Nebraska Academy of Sciences, Publications; Proceedings.

**Nebr St Bd Agr, An Rp** Nebraska State Board of Agriculture, Annual Report. Lincoln, Nebr.

**Nebr St Hist Soc, Pr** Nebraska State Historical Society, Proceedings and Collections. Lincoln.

**Nebr Univ, Studies** Nebraska University, University Studies. Lincoln.

**Nev, Univ, Dp G M, B** Nevada, University of, Department of Geology and Mining, Bulletin. Reno.

**New Orleans Ac Sc, Papers** New Orleans [La.] Academy of Sciences, Papers.

**Newport N H Soc, Pr** Newport [R. I.] Natural History Society, Proceedings.

**Niederrhein Ges Bonn, Szb** Niederrheinische Gesellschaft für Natur- und Heilkunde zu Bonn, Sitzungsberichte. Issued with Naturhistorische Verein der preussischen Rheinlande und Westphalens, Verhandlungen.

**Oesterreichische Zs Berg- u Hüttenw** Oesterreichische Zeitschrift für Berg- und Hüttenwesen. Wien.

**Ohio G S, B** Ohio Geological Survey, Bulletin. Columbus.

**Ohio M J** Ohio Mining Journal. Columbus.

**Ohio Nat** Ohio Naturalist, Ohio State University, Columbus.

**Ohio St Ac Sc, An Rp; Pr; Sp P** Ohio State Academy of Science, Annual Report; Proceedings; Special Papers. Columbus.

**Ohio St Univ, B** Ohio State University, Bulletin. Columbus.

**Okla, Dp G N H, Bien Rp** Oklahoma, Department of Geology and Natural History, Biennial Report. Guthrie.

**Okla G S, B** Oklahoma Geological Survey, Bulletin. Norman.

**Okla, Univ, Research B** Oklahoma, State University, Research Bulletin. Norman.

**Oneida Hist Soc, Tr** Oneida Historical Society at Utica, N. Y., Transactions.

**Onondaga Ac Sc, Pr** Onondaga Academy of Science, Proceedings. Syracuse, N. Y.

**Onondaga Hist As Sc S** Onondaga Historical Association. Science series. Syracuse, N. Y.

**Ont Bur Mines, An Rp; B** Ontario Bureau of Mines, Annual Report; Bulletin. Toronto.

**Oreg Bur Mines; Min Res Oreg** Oregon Bureau of Mines and Geology; Mineral Resources of Oregon. Corvallis.

**Ottawa Field Nat Club, Tr** Ottawa Field Naturalists' Club, Transactions.

**Ottawa Lit Sc Soc, Tr** Ottawa Literary and Scientific Society, Transactions.

**Ottawa Nat** Ottawa Naturalist. Continues the Transactions of the Ottawa Field Naturalists' Club.

**Pa, Dp Agr, An Rp** Pennsylvania, Department of Agriculture, Annual Report. Harrisburg.

**Pa G S [2d], An Rp** Pennsylvania, Geological Survey, Second, Annual Report. Harrisburg.

**Pa St Coll; An Rp** Pennsylvania State College; Annual Report.

**Pa, Top G S; Rp** Pennsylvania, Topographic and Geologic Survey, Report. Harrisburg.

**Pa, Univ, Lab, Contr** Pennsylvania, University of, Laboratory, Contributions from. Philadelphia.

**Pahasapa Q** Pahasapa Quarterly. Rapid City, S. Dak.

**Pal B** Paleontological Bulletins (Cope), Nos. 1–40, 1872–1885. Philadelphia.

**Palaeont Abh (Dames u Kayser)** Palaeontologische Abhandlungen (Dames und Kayser). Jena.

**Palaeont Zs** Palaeontologische Zeitschrift. Berlin.

**Palaeontographica.** Cassel.

**Penn Monthly.** Philadelphia, Pa.

**Penn St M Q** Penn State Mining Quarterly. Pennsylvania State College.

**Petermanns Mitt; Erg** Petermanns Mitteilungen; Ergänzungsheft. Gotha.

**Pharmaceutical J** Pharmaceutical Journal and Transactions. London.

**Ph Mag** Philosophical Magazine. Later London and Edinburgh Philosophical Magazine. Later London, Edinburgh, and Dublin Philosophical Magazine.

**Ph Soc Glasgow, Pr** Philosophical Society of Glasgow, Proceedings.

**Ph Soc Wash, B** Philosophical Society of Washington [D. C.], Bulletin.

**Phila Med Phys J** Philadelphia Medical and Physical Journal.

**Polyt Rv** Polytechnic Review. Philadelphia, Pa.

**Pop Sc Mo** Popular Science Monthly. New York.

**Pop Sc Rv** Popular Science Review. London.

**Portland Soc N H, Pr** Portland [Maine] Society of Natural History, Proceedings.

**Pottsville Sc As, B** Pottsville Scientific Association, Schuylkill County, Pa., Bulletin [only one number published, 1855]

**Poughkeepsie Soc N Sc, Pr** Poughkeepsie [N. Y.] Society of Natural Science, Proceedings.

**Princeton Coll, B** Princeton College [N. J.], Bulletin.

**Princeton Coll, E. M. Mus G, Contr** Princeton College, E. M. Museum of Geology and Archaeology, Contributions.

**Psyche.** Cambridge, Mass.

**Q J Micro Sc** Quarterly Journal of Microscopical Science. London.

**Q J Sc** Quarterly Journal of Science. London.

**Q J Sc** Quarterly Journal of Science, Literature, and the Arts. London.

**Que, Dp Col..., Mines Br, Rp** Quebec (Province), Department of Colonization, Mines and Fisheries, Mines Branch, Report on Mining operations. Quebec.

**R Ac Cienc Habana, An** Real Academia de ciencias médicas, físicas y naturales de la Habana [Cuba], Anales.

**R Astron Soc Can, Pr** Royal Astronomical Society of Canada, Selected Papers and Proceedings. Toronto.

**R Bot Garden Edinb, Notes** Royal Botanical Garden of Edinburgh, Notes.

**R Comitato G Italia, B** Reale Comitato geologico d'Italia, Bolletino. See Italia.

**R Dublin Soc, J; Sc Pr** Royal Dublin Society, Journal; Scientific Proceedings.

**R Eng J** Royal Engineers Journal. Chatham.

**R G Soc Cornwall, Tr** Royal Geological Society of Cornwall, Transactions. Penzance.

**R G Soc Ireland, J** Royal Geological Society of Ireland, Journal. Dublin.

**R Geog Soc, Pr** Royal Geographical Society, Proceedings. London.

**R I Bur Industrial Statistics, An Rp; Nat Res S, B** Rhode Island, Bureau of Industrial Statistics, Annual Report; Natural Resources Survey, Bulletin. Providence.

**R Inst, Pr** Royal Institution of Great Britain, Proceedings. London.

**R Irish Ac, Pr** Royal Irish Academy, Proceedings. Dublin.

**R Micro Soc, J** Royal Microscopical Society, Journal. London.

**R Phys Soc Edinb, Pr** Royal Physical Society of Edinburgh, Proceedings.

**R Soc Can, Pr Tr** Royal Society of Canada, Proceedings and Transactions. Montreal.

**R Soc Edinb, Tr; Pr** Royal Society of Edinburgh, Transactions; Proceedings.

**R Soc London, Pr; Ph Tr** Royal Society of London, Proceedings; Philosophical Transactions.

**R Soc N S Wales, J Pr** Royal Society of New South Wales, Journal and Proceedings. Sydney.

**Records of the Past.** Washington, D. C.

**Republic.** Washington, D. C.

**Rv Gén Sciences** Revue générale des sciences pures et appliquées. Paris.

**Rv Scient** Revue scientifique... Paris.

**Rv Trim Can** Revue trimestrielle canadienne. Montreal.

**Rv Univ Mines** Revue universelle des mines... Liége and Paris.

**Revista Minera** Revista minera, metalúrgica y de ingeniería. Madrid.

**Rochester Ac Sc, Pr** Rochester [N. Y.] Academy of Science, Proceedings.

**Russ-k Min Ges St. Petersburg, Verh** Russisch-kaiserliche mineralogische Gesellschaft zu St. Petersburg, Verhandlungen.

**S Cal Ac Sc, B** Southern California Academy of Sciences, Bulletin. Los Angeles.

**S Dak G S, B** South Dakota Geological Survey, Bulletin. Sioux Falls.

**S Dak Sch Mines, B** South Dakota School of Mines, Bulletin. Rapid City.

**Salt Lake M Rv** Salt Lake [Utah] Mining Review.

**San Diego Soc N H, Tr** San Diego [Cal.] Society of Natural History, Transactions.

**San Francisco Micro Soc, Tr** San Francisco Microscopical Society, Transactions.

**Santa Barbara Soc N H, B** Santa Barbara [Cal.] Society of Natural History, Bulletin.

**Sc Advocate** Science Advocate. Issued quarterly by the Natural Science Society of Atco, N. J.

**Sc Am; Sc Am Sup** Scientific American; Scientific American Supplement. New York.

**Sc As Trinidad, Pr** Scientific Association of Trinidad, Proceedings. Port of Spain.

**Sc Conspectus** Science Conspectus. Massachusetts Institute of Technology. Boston.

**Sc Mo** Scientific Monthly. New York.

**Sc Mo, Toledo, O** Scientific Monthly, Toledo, Ohio.

**Sc Progress** Science Progress. London.

**Sc Soc San Antonio, B** Scientific Society of San Antonio [Texas], Bulletin.

**Sch Mines Q** School of Mines Quarterly. Columbia University. New York.

**Schles Ges, Jber** Schlesische Gesellschaft für vaterländische Cultur, Jahres-Bericht. Breslau.

**Schweiz Naturf Ges, Verh** Schweizerische Naturforschende Gesellschaft, Verhandlungen.

**Science.** Cambridge, Mass, later New York.

**Science** (ed. John Michels). New York.

**Science News.** Salem, Mass.

**Scottish Geog Mag** Scottish Geographical Magazine. Edinburgh.

**Scribner's Mag** Scribner's Magazine. New York.

**Sedalia N H Soc, B** Sedalia [Mo.] Natural History Society, Bulletin.

**Seism Soc Am, B** Seismological Society of America, Bulletin. Stanford University, Cal.

**Senckenbergische Nat Ges Frankfurt, Ber** Senckenbergische naturforschende Gesellschaft in Frankfurt am Main, Bericht.

**Sierra Club B** Sierra Club Bulletin. San Francisco, Cal.

**Smiths Inst, An Rp; Smiths Contr Knowl; Smiths Misc Col; Q Is** Smithsonian Institution, Annual Report; Smithsonian Contributions to Knowledge; Smithsonian Miscellaneous Collections; Quarterly Issue. Washington, D. C.

**Soc Arts, J** Society of Arts, Journal. London.

**Soc Belge G, B** Société belge de géologie..., Bulletin. Bruxelles.

**Soc Bot France, B** Société botanique de France, Bulletin. Paris.

**Soc Chem Ind, J** Society of Chemical Industry, Journal. London.

**Soc Cient Ant Alz, Mem** Sociedad científica "Antonio Alzate," Memorias y revista, México, D. F.

**Soc Cubana Ing, Rv** Sociedad cubana de ingenieros, Revista. Habana.

**Soc d'Études Sc d'Angers, B** Société d'études scientifiques d'Angers, Bulletin.

**Soc Española H N, An** Sociedad española de historia natural, Anales. Madrid.

**Soc Franç Minér, B** Société française de minéralogie, Bulletin. Paris.

**Soc Fribourgeoise Sc Nat, B; Mém** Société fribourgeoise des sciences naturelles, Bulletin; Mémoires. Fribourg.

**Soc G Belgique, An** Société géologique de Belgique, Annales. Liège.

**Soc G France, B; Mém** Société géologique de France, Bulletin; Mémoires. Paris.

**Soc G Italiana, B** Società geologica italiana, Bollettino. Roma.

**Soc G Mex, B** Sociedad geológica mexicana, Boletín. México, D. F.

**Soc G Nord, An; Mém** Société géologique du Nord, Annales; Mémoires. Lille.

**Soc G Normandie, B** Société géologique de Normandie, Bulletin. Havre.

**Soc Geog Mex, B** Sociedad de geografía y estadística de la República mexicana, Boletín. México, D. F.

**Soc Géog Paris, B** Société de géographie, Paris, Bulletin.

**Soc Géog Qué, B** Société de géographie de Québec, Bulletin.

**Soc Hongroise Géog, Abrégé B** Société hongroise de géographie, Abrégé du bulletin. Budapest.

**Soc Imp Nat Moscou, B** Société impériale des naturalistes de Moscou, Bulletin.

**Soc Ind Min, B; C R Men** Société de l'industrie minérale, Bulletin; Comptes rendus mensuels des réunions. Saint-Etienne.

**Soc Ing Civils France, Mém** Société des ingénieurs civils de France, Mémoires. Paris.

**Soc Italiana Sc Nat Milano, Atti** Società italiana di scienze naturali... in Milano, Atti.

**Soc Ligustica Sc Nat Geog, Atti** Società ligustica di scienze naturali e geografiche, Atti. Genoa.

**Soc Mex Geog Estadística, B** Sociedad mexicana de geografía y estadística, Boletín. México, D. F.

**Soc Malac Belgique, An** Société malacologique de Belgique, Annales. Bruxelles.

**Soc Minér France, B** Société minéralogique de France, Bulletin. Paris.

**Soc Promotion Agr Sc, Pr** Society for the Promotion of Agricultural Science, Proceedings of the —— Annual Meeting.

**Soc Roy Belge de Géog, B** Société royale belge de géographie, Bulletin. Bruxelles.

**Soc Sc Nat Neuchatel, B** Société des sciences naturelles de Neuchatel, Bulletin.

**Soc Zool France, B** Société zoologique de France, Bulletin. Paris.

**Southern J Med Phys Sc** Southern Journal of the Medical and Physical Sciences. Nashville, Tenn.

**Southwestern As Petroleum G, B** Southwestern Association of Petroleum Geologists, Bulletin. Continued as American Association of Petroleum Geologists, Bulletin.

**St. Louis Univ, B** St. Louis [Mo.] University, Bulletin.

**Staten Island As, Pr** Staten Island [N. Y.] Association of Arts and Sciences, Proceedings.

**Stone.** Chicago.

**Tech Q** Technology Quarterly and Proceedings of the Society of Arts. Earlier, Technology Quarterly. Massachusetts Institute of Technology. Boston.

**Tech Rv** Technology Review. Massachusetts Institute of Technology. Boston.

**Tech Soc Pacific Coast, Tr** Technical Society of the Pacific Coast, Transactions. San Francisco.

**Tenn G S; Res Tenn; B** Tennessee State Geological Survey; Resources of Tennessee; Bulletin. Nashville.

**Tenn St Bd Health, B; Rp** Tennessee State Board of Health, Bulletin; Report. Nashville.

**Terr Magn** Terrestrial Magnetism and Atmospheric Electricity. Baltimore.

**Tex Ac Sc, Tr** Texas Academy of Science, Transactions. Austin, Tex.

**Tex G S, Rp Prog** Texas Geological Survey, Report of Progress. Austin.

**Tex, Univ, B; Min S B** Texas University of, Bulletin; Mineral Survey Bulletin. Austin.

**Toronto, Univ, Studies, g s** Toronto, University of, Studies, geological series.

**Torrey Bot Club, B** Torrey Botanical Club, Bulletin. New York.

**Torreya.** Lancaster, Pa.

**Transylvania J Med** Transylvania Journal of Medicine. Lexington, Ky.

**Tschermak's Mitt** Tschermak's mineralogische und petrographische Mittheilungen. Wien.

**Tufts Coll Studies** Tufts College Studies. Tufts, Mass.

**U S, Bur Mines, B; Tech P** United States, Bureau of Mines, Bulletin; Technical Paper, Washington, D. C.

**U S, Bur Soils, B** United States, Bureau of Soils, Bulletin.

**U S, Coast S** United States, Coast and Geodetic Survey.

**[U S], —— Cong —— Sess, S Ex D; H Ex D** [United States], —— Congress —— session, Senate Executive Document No. ——; House of Representatives Executive Document No. ——.

**U S, Dp Agr, B** United States, Department of Agriculture, Bulletin.

**U S, Dp Interior, Off Secretary** United States, Department of the Interior, Office of the Secretary.

**U S G Expl 40th Par (King)** United States Geological Exploration of the Fortieth Parallel (King).

**U S G Geog S Terr (Hayden)** United States Geological and Geographical Survey of the Territories (Hayden) [title varies].

**U S G S, An Rp; P P; B; W-S P; Mon; Min Res; G Atlas, Top Atlas.** United States Geological Survey, Annual Report; Professional Paper; Bulletin; Water-Supply Paper; Monograph; Mineral Resources; Geologic Atlas, —— folio (No. ——); Topographic Atlas.

**U S Geog G S Rocky Mtn Reg (Powell)** United States Geographical and Geological Survey of the Rocky Mountain Region (Powell).

**U S Geog S W 100th Mer (Wheeler)** United States Geographical Surveys West of the One Hundredth Meridian (Wheeler).

**U S Land Off** United States, General Land Office.

**U S Nat Mus, An Rp; B; Pr** United States National Museum, Annual Report; Bulletin; Proceedings.

**U S, Off Pub Roads, B** United States, Office of Public Roads, Bulletin.

**U S, Pacific R R Expl** United States [War Department], Pacific Railroad Explorations (U. S., 33d Congress, 1st session, House of Representatives Ex. Doc. No. 129, vol. 18, pts. 1–4). Reports of explorations and surveys to ascertain the most practicable and economical route for a railroad from the Mississippi River to the Pacific Ocean, made... in 1853–4... U. S., 33d Congress 2d session, Senate Ex. Doc. No. 78 and H. Ex. Doc. 91.

**U S [War Dp], Chief Eng, An Rp** United States [War Department], Chief of Engineers, Annual Report.

**Upsala, Univ, G Inst, B** Upsala, University, the Geological Institution, Bulletin.

**Utah Ac Sc, Tr.** Utah Academy of Sciences, Transactions. Salt Lake City.

**Va G S, B** Virginia Geological Survey, Bulletin. Richmond.

**Va, Univ, Ph Soc, B sc s** Virginia, University of, Philosophical Society, Bulletin, scientific series. Charlottesville.

**Vassar Bros Inst, Tr** Vassar Brothers Institute, Transactions. Poughkeepsie, N. Y.

**Ver Erdk Dresden, Mitt** Verein für Erdkunde zu Dresden, Mitteilungen.

**Ver Erdk Leipzig, Mitt** Verein für Erdkunde zu Leipzig, Mitteilungen.

**Ver Freunde Naturg Mecklenberg, Arch** Verein der Freunde der Naturgeschichte in Mecklenberg. Archiv.

**Ver Freunden Erdk Leipzig, Jber** Verein von Freunden der Erdkunde zu Leipzig, Jahresbericht.

**Ver Vaterl Naturk Württemberg, Jahresh** Verein für vaterländische Naturkunde in Württemberg, Jahreshefte. Stuttgart.

**Victoria Inst, Tr** Victoria Institute, or Philosophical Society of Great Britain, Journal of the Transactions. London.

**Victoria Inst, Trinidad, Pr** Victoria Institute, Trinidad, Proceedings.

**Videnskabs-Selsk Christiania, Forh** Videnskabs-Selskabet i Christiania, Forhandlingar.

**Vt St G, Rp** Vermont, State Geologist, Report. Rutland.

**W Soc Eng, J** Western Society of Engineers, Journal. Chicago, Ill.

**W Va G S** West Virginia Geological Survey, Charleston and Wheeling.

**W Va Univ, Rp Bd Reg** West Virginia University, Report of the Board of Regents. Morgantown.

**Wagner Free I Sc, Tr** Wagner Free Institute of Science of Philadelphia, Transactions.

**Walker Museum.** See Chicago University.

**Wash Ac Sc; J; Pr** Washington [D. C.] Academy of Sciences, Journal: Proceedings.

**Wash, St G, An Rp; Wash G S, B** Washington, State Geologist, Annual Report; Washington Geological Survey, Bulletin. Tacoma.

**Wash, Univ, Pub G** Washington. University of, Publications in Geology. Seattle.

**Washburn Coll Lab N H, B** Washburn College Laboratory of Natural History, Bulletin. Topeka, Kans.

**Wernerian N H Soc, Mem** Wernerian Natural History Society, Memoirs. Edinburgh.

**West Am Sc** West American Scientist. San Diego, Cal.

**Western Eng** Western Engineering. San Francisco, Cal.

**Western Reserve Hist Soc Tracts** Western Reserve Historical Society, Tracts. Cleveland, Ohio.

**Western Rv Sc** Western Review of Science and Industry. With vol. 2, no. 7, Oct., 1878, name changed to Kansas City Review of Science and Industry. Kansas City, Mo.

**Wis Ac Sc, Tr** Wisconsin Academy of Science, Arts, and Letters, Transactions. Madison.

**Wis Engineer** Wisconsin Engineer. Madison.

**Wis G S, G Wis; B** Wisconsin Geological Survey, Geology of Wisconsin. Later Wisconsin Geological and Natural History Survey, Bulletin. Madison.

**Wis N H Soc, B** Wisconsin Natural History Society, Bulletin. Milwaukee.

**Wis, Univ, B, Sc s; Eng s** Wisconsin, University of, Bulletin, Science series; Engineering series. Madison.

**Wyo, G Off, B; Wyo, St G** Wyoming, Geologist's Office. Bulletin. Wyoming, State Geologist. Cheyenne and Laramie.

**Wyo, Univ, Sch Mines, B** Wyoming, University of, School of Mines, Bulletin. Laramie.

**Wyoming Hist G Soc, Pr; Pub** Wyoming Historical and Geological Society, Proceedings and Collections; Publications. Wilkesbarre, Pa.

**Yale Bicen Pub Contr Miner** Yale [University] Bicentennial Publications. Contributions to mineralogy and petrography..., edited by S. L. Penfield and L. V. Pirsson. New York, Charles Scribner's Sons, 1901.

**Yale Sc Mo** Yale [University] Scientific Monthly. New Haven, Conn.

**Yorkshire G Polyt Soc, Pr** Yorkshire Geological and Polythechnic Society, Proceedings. Leeds.

**Zool Anzeiger** Zoologischer Anzeiger. Leipzig.

**Zool B** Zoological Bulletin. Boston, Mass.

**Zool Soc London, Pr** Zoological Society of London, Proceedings.

**Zs Allg Erdk** Zeitschrift für allgemeine Erdkunde. Berlin.

**Zs Anorg Chem** Zeitschrift für anorganische Chemie. Hamburg.

**Zs Berg-, Hütten- u Salinen-Wesen** Zeitschrift für das Berg-, Hütten- und Salinen-Wesen. Berlin.

**Zs Ges Naturw** Zeitschrift für die gesammten Naturwissenschaften, Berlin.

**Zs Gletscherk** Zeitschrift für Gletscherkunde. Berlin.

**Zs Kryst** Zeitschrift für Krystallographie und Mineralogie. Leipzig.

**Zs Miner (Leonhard)** Zeitschrift für Mineralogie (Leonhard). Frankfurt am Main.

**Zs Prak G** Zeitschrift für praktische Geologie. Berlin.

**Zs Vulkan** Zeitschrift für Vulkanologie. Berlin.

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HAL MEADOW

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**76** The southeast Missouri lead district. Am I M Eng, Tr 5: 100–107 (1877) Eng M J 22: 59–60 (1876)

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**77b** On barite crystals from the Last Chance mine, Morgan Co., Mo., and on göthite from Adair Co., Mo. Am J Sc (3) 13: 419–420 (1877)

**77c** Meteor of January 3, 1877. The Western n s 3: 245–246 (1877)

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**82d** North Park, Colo. Kansas City Rv Sc 6: 197–204 (1882)

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**93** The relation of the Cretaceous deposits of Iowa to the subdivisions of the Cretaceous proposed by Meek and Hayden. Am G 11 : 300–307 (1893) Iowa Ac Sc, Pr 1 pt 3 : 7–12 (1893)

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**96c** Apparent anomalies of stratification in the Postville well [Iowa]. Am G 17 : 195–203 (1896)

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HAL MEADOW

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**97b** The Lower Silurian trilobites of Minnesota. Minn G S, Final Rp 3 pt 2 : 695–759, il (1897)

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**99g** (a) *Paropsonema;* a peculiar echinoderm from the *Intumescens* fauna, New York ; (b) Remarkable occurrence of *Orthoceras* in the Oneonta sandstones of New York ; (c) The Squaw Island "water biscuit," Canandaigua Lake, New York (*abst*). Am As, Pr 48 : 226 (1899) Science n s 10 : 488–489 (1899)

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**04b** (and **Luther,** D. D.) Stratigraphic and paleontologic map of Canandaigua and Naples quadrangles [N. Y.]. N Y St Mus, B 63 : 76 pp, map (1904)

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**07e** Eurypterus fauna of the Shawangunk grit (*abst*). Science n s 25 : 294–295 (1907)

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**14d** Illustrations of the recent exposure of the Saratoga Springs (*abst*). G Soc Am, B 25: 38 (1914)

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**18b** Strand and undertow markings of upper Devonian time as indications of the prevailing climate. N Y St Mus, B 196: 199–238 (1917) [1918]. *Abst*, G Soc Am, B 29: 83 (1918)

**18c** Primary and secondary stresses recorded by the vein systems in the Percé rock. N Y St Mus, B 196: 239–240 (1917) [1918]

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**07** Zinc in eastern Tennessee. Mines and Minerals 27: 395 (1907)

**07a** The zinc belt of Claiborne and Union cos., Tenn. Mines and Minerals 27: 567 (1907)

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**74** Glossary of a few paleontological terms, the accent and pronunciation of which are not obvious. Cin Q J Sc 1: 285–286 (1874)

**75** Review of the present state of the controversy regarding the motion of the glacier. Cin Q J Sc 2: 72–77, 134–151 (1875)

**77** On the preglacial geography of the region of the Great Lakes. Can Nat n s 8: 187–206 (1877)

**78** On the occurrence of a tree-like fossil plant, *Glyptodendron*, in the Upper Silurian (Clinton) rocks of Ohio. Am J Sc (3) 15: 302–304 (1878) G Mag (2) 5: 558–564 (1878)

**79** Preglacial formation of the beds of the great American lakes. Can Nat n s 9: 213–227 (1879)

**82** Evidence from the drift of Ohio, Indiana, and Illinois, in support of the preglacial origin of the basins of Lakes Erie and Ontario. Am As, Pr 30: 147–159 (1882)

**82a** On the occurrence of an archimediform fenestellid in the Upper Silurian rocks of Ohio (*abst*). Am As, Pr 30: 191 (1882)

**83** On *Helicopora*, a new spiral genus (with three species) of North American fenestellids. G Soc London, Q J 39: 30–38, il (1883) *Abst*, G Mag (2) 9: 377–378 (1882)

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**83a** On the occurrence of fossiliferous strata in the lower Ponent (Catskill) group of middle Pennsylvania. Am Nat 17 : 274–282 (1883)

**83b** Geological notes: *A*, On an error in identifying two distinct beds of iron ore in Report *G* of the geological survey of Bradford Co.; *B*, Note on the occurrence of *Holoptychius*, about 500 ft. below the recognized top of the Chemung gr., in Bradford Co.; *C*, On a mass of Catskill rocks supposed to exist on the north bank of Towanda Creek, near Franklin; *D*, On two small patches of Catskill represented near Leroy; *E*, On the equivalent of the Schoharie grit of New York, in middle Pennsylvania. Am Ph Soc, Pr 20; 529–536 (1883)

**83c** Note on a large fish-plate from the upper Chemung (?) beds of northern Pennsylvania. Am Ph Soc, Pr 20 : 664–666, il (1883)

**83d** On the Kingsmill white sandstone [Perry Co., Pa.]. Am Ph Soc, Pr 20 : 666–673, il (1883)

**83e** On a large crustacean from the Catskill group of Pennsylvania (*abst*). Am As, Pr 32 : 265 (1884) Science 2 : 327 (1883)

**83f** *Rensselaeria* from the Hamilton group of Pennsylvania (*abst*). Am As, Pr 32 : 266 (1884) Science 2 : 327, 471–472 (1883)

**84** Preliminary note on some fossil fishes recently discovered in the Silurian rocks of North America. Am Nat 18 : 1222–1226 (1884)

**84a** The Perry County fault; note on an important correction in the geological map of Pennsylvania. Am Ph Soc, Pr 21 : 218–225 (1884)

**84b** On the equivalent of the New York Portage, in Perry Co., middle Pa. Am Ph Soc, Pr 21 : 230–235 (1884)

**84c** Note on the genus *Rensselaeria* in the Hamilton group in Perry Co., [Pa.]. Am Ph Soc, Pr 21 : 235–236 (1884)

**84d** Note on a large crustacean from the Catskill group of Pennsylvania [*Dolichocephala lacoana*]. Am Ph Soc, Pr 21 : 236–239, il (1884)

**84e** On the Clinton and other shales, etc., composing the fifth group of Rogers... [Perry Co., Pa.]. Am Ph Soc, Pr 21 : 492–502 (1884)

**84f** On the occurrence of the genus *Dalmanites* in the Lower Carboniferous rocks of Ohio. G Mag (3) 1 : 303–307, il (1884)

**84g** Pennsylvania before and after the elevation of the Appalachian Mountains (*abst*). Brit As, Rp 54 : 718 (1885) G Mag (3) 1 : 466–467 (1884)

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**84h** On some remains of fish from the Upper Silurian rocks of Pennsylvania (*abst*). Brit As, Rp 54 : 733–734 (1885) G Mag (3) 1 : 519–521 (1884)

**84i** *Dalmanites* in the Lower Carboniferous rocks. Science 3 : 563 (1884)

**84j** Fish remains in the North American Silurian rocks. Science 4 : 3[illegible] (1884)

**84k** On the Hamilton sandstone of middle Pennsylvania (*abst*). Am As, Pr 32 : 244–246 (1884)

**84l** [On the crumpling of the earth's crust as shown by a section across Huntingdon, Juniata, and Perry counties in Pennsylvania.] Science 4 : 258 (1884)

**84m** On some fish remains recently discovered in the Silurian rocks of Pennsylvania (*abst*). Am As, Pr 33 : 424–428 (1885) Science 4 : 326 (1884)

**85** A preliminary report on the paleontology of Perry Co., describing the order and thickness of its formations and its folded and faulted structure. Pa G S, 2d, F2 : xxii, 437 pp, maps (1885)

**85a** On the recent discovery of pteraspidian fish in the Upper Silurian rocks of North America. G Soc London, Q J 41 : 48–64, il (1885) *Abst*, G Mag (3) 2 : 89–90 (1885)

**85b** Pennsylvania before and after the elevation of the Appalachian Mountains; a study in dynamical geology. Am Nat 19 : 257–268 (1885)

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**85d** On the materials of the Appalachians (*abst*). Am J Sc (3) 30 : 316 (1885) Science 6 : 221 (1885)

**85e** On *Ctenacanthus* and *Gyracanthus* from the Chemung of Pennsylvania (*abst*). Am As, Pr 33 : 489–490 (1885)

**86** Report on some fossils from the lower Coal Measures near Wilkes-Barre, Luzerne Co., Pa. Wyoming Hist G Soc, Pr 2 : 239–253, il (1886)

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**07k** A new zonitoid shell from the Miocene, Florissant, Colo. [*Vitrea fagalis*]. Nautilus 21: 89 (1907)

**07l** A new plant (*Ficus*) from the Fox Hills Cretaceous [Colo.]. Colo Univ, Studies 4: 149–152 (1907)

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**08a** Descriptions of Tertiary insects. Am J Sc (4) 25 : 51–52, 227–232, 309–312; 26 : 69–75; 27 : 53–58, 381–387; 28 : 283–286, il (1908–09)

**08b** Fossil Cercopidæ (Homoptera). Wis N H Soc, B 6 : 35–38, il (1908)

**08c** The fishes of the Rocky Mountain region. Colo Univ Studies 5 : 159–178, il (1908)

**08d** A fossil leaf-cutting bee [*Megachile prædicta*, Florissant, Colo.] Can Entomologist 40 : 31–32 (1908)

**08e** Fossil Chrysopidæ [Florissant, Colo.]. Can Entomologist 40 : 90–91 (1908)

**08f** Two fossil Diptera [Florissant, Colo.]. Can Entomologist 40 : 173–175, il (1908)

**08g** Fossil Osmylidae (Neuroptera) in America. Can Entomologist 40 : 341–342 (1908)

**08h** The first American fossil *Mantis* [*Lithophotina floccosa*, Florissant, Colo.]. Can Entomologist 40 : 343–344, il (1908)

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**08j** Descriptions of Tertiary plants [Florissant, Colo.]. Am J Sc (4) 26 : 65–68, 537–544; 29 : 76–78, il (1908–10)

**08k** Fossil Aphididæ from Florissant, Colo. Nature 78 : 318–319 (1908)

**08l** Florissant; a Miocene Pompeii. Pop Sc Mo 73 : 112–126, il (1908)

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**08p** A new locality for Miocene mammals [*Parahippus*, Middle Park, Colo.]. Science n s 28 : 683 (1908)

**08q** The Miocene species of *Lymnæa*. Nautilus 22 : 69–70 (1908)

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**08u** A fossil fly of the family Blepharoceridæ [*Philorites johannseni*, Eocene near Rifle, Colo.]. Entomologist 41 : 262–265, il (1908)

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**10g** A fossil fig [*Ficus bruesi*, Florissant, Colo.]. Torreya 10 : 222–224, il (1910)

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**11b** Note on *Lymnæa florissantica*. Nautilus 25 : 24 (1911)

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**11d** Samuel Hubbard Scudder. Science n s 34 : 338–342 (1911)

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**14b** Land shells from the Tertiary of Wyoming. Am Mus N H, B 33 : 323–325, il (1914)

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**14d** A new fossil sawfly from Florissant, Colo. [*Tenthredella toddi*]. Can Entomologist 46 : 32 (1914)

**14e** Three Diptera from the Miocene of Colorado. Can Entomologist 46 : 101–102 (1914)

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**99a** Corundiferous nepheline syenite. Ont Bur Mines, Rp 8: 250–253 (1899)

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**01b** Sea beaches of eastern Ontario. Ont Bur Mines, Rp 1901 : 215–227 (1901)

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**65f** Descriptions of new Eocene shells of the United States. Am J Conch 1:142–149, il (1865)

**65g** Catalogue of the older Eocene shells of Oregon. Am J Conch 1:150–154 (1865)

**65h** Descriptions of new Eocene shells, and references with figures to published species. Am J Conch 1:210–212, 215, il (1865)

**65i** Descriptions of five new species of older Eocene shells from Shark River, Monmouth Co., N. J. Am J Conch 1: 213–215, il (1865)

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**66a** [Chalk at Smoky Hill, Colo.] Smiths Inst, An Rp 1865:125 (1866)

**66b** Illustrations of Miocene fossils with descriptions of new species. Am J Conch 2:65–74, il (1866)

**66c** Note on the genus *Gadus*, with descriptions of some new genera and species of American fossil shells. Am J Conch 2: 75–78 (1866)

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**67a** ... on the Cretaceous rocks of California. Am J Sc (2) 44:376–377 (1867)

**67b** Paleontological miscellanies. Am J Conch 3:5–7 (1867)

**67c** Descriptions of new genera and species of fossil shells. Am J Conch 3:8–16 (1867)

**67d** Synopsis of the genera *Sycotypus* Browne and *Busycon* Bolten. Am J Conch 3:182–185 (1867)

**67e** Descriptions of new Miocene shells. Am J Conch 3:186–187 (1867)

**67f** Notes on fossil shells and descriptions of new species. Am J Conch 3:188–190 (1867)

**Conrad,** Timothy Abbott—Continued.

**68** Descriptions of new genera and species of Miocene shells, with notes on other fossil and recent species. Am J Conch 3:257–270, il (1868)

**68a** Descriptions of Miocene shells of the Atlantic slope. Am J Conch 4:64–68, il (1868)

**68b** Synopsis of invertebrate fossils [Cretaceous and Eocene]. N J G S, G N J:721–732 (1868)

**69** Notes on American fossiliferous strata [New Jersey]. Am J Sc (2) 47: 358–364 (1869)

**69a** Notes on recent and fossil shells, with descriptions of new genera. Am J Conch 4:246–249 (1869)

**69b** Descriptions of and references to Miocene shells of the Atlantic slope, and descriptions of two new supposed Cretaceous species. Am J Conch 4:278–279 (1869)

**69c** Description of a new *Unio* and fossil *Goniobasis*. Am J Conch 4:280, il (1869)

**69d** Descriptions of Miocene, Eocene, and Cretaceous shells. Am J Conch 5:39–45, il (1869)

**69e** Observations on the genus *Astarte*, with descriptions of three other genera of Crassatellidæ. Am J Conch 5:46–48 (1869)

**69f** Descriptions of new fossil Mollusca, principally Cretaceous. Am J Conch 5: 96–103, il (1869)

**70** Notes on recent and fossil shells, with descriptions of new species. Am J Conch 6:71–78, il (1870)

**70a** On the mixture of Cretaceous and Eocene fossils. Am J Sc (2) 49:275 (1870)

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**71a** On some points connected with the Cretaceous and Tertiary of North Carolina. Am J Sc (3) 1:468–469 (1871)

**71b** Descriptions of new Tertiary fossils, with notes on two genera of Lamellibranchiata. Am J Conch 6:199–201, il (1871)

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**72** Descriptions and illustrations of genera of shells. Ac N Sc Phila, Pr 1872: 50–55, il

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**74** Descriptions of new mollusks from Cretaceous beds of Colorado. U S G Geog S Terr, An Rp [7]:455–456 (1874)

**75** [Descriptions of Haploscaphae from Niobrara beds.] U S G S Terr (Hayden), Rp 2:23–24 (1875)

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**71m** Preliminary report on the Vertebrata discovered in the Port Kennedy bone cave [Pa.]. Am Ph Soc, Pr 12 : 15, 73–102 (1871)

**71n** Note on some Cretaceous Vertebrata in the State Agricultural College of Kansas, U. S. A. Am Ph Soc, Pr 12 : 168–170 (1871)

**71o** Brief account of an expedition in the valley of the Smoky Hill River in Kansas. Am Ph Soc, Pr 12 : 174–176 (1871)

**71p** On the extinct batrachian fauna of the Carboniferous of Linton, Ohio. Am Ph Soc, Pr 12 : 177 (1871)

**71q** Observations on the distribution of certain extinct Vertebrata in North Carolina. Am Ph Soc, Pr 12 : 210–216, il (1871)

**71r** [On *Sauropleura remex* from the coal measures.] Ac N Sc Phila, Pr 1871 : 53

**71s** On the extinct tortoises of the Cretaceous of New Jersey. Am Nat 5 : 562–564 (1871)

**71t** Geological expedition to Kansas. Am Nat 5 : 792–795 (1871)

**72** On the geology and paleontology of the Cretaceous strata of Kansas. U S G S Mont (Hayden), An Rp 5 : 318–349 (1872)

**72a** On the vertebrate fossils of the Wasatch strata. U S G S Mont (Hayden), An Rp 5 : 350–353 (1872)

**72b** Catalogue of the Pythonomorpha found in the Cretaceous strata of Kansas. Am Ph Soc, Pr 12 : 264–287 (1872)

**72c** On a new testudinate from the chalk of Kansas [*Cynocercus incisus*]. Am Ph Soc, Pr 12 : 308–310 (1872)

**72d** On the families of fishes of the Cretaceous formation of Kansas. Am Ph Soc, Pr 12 : 327–357 (1872)

**72e** On *Bathmodon*, an extinct genus of ungulates. Am Ph Soc, Pr 12 : 417–420 (1872)

**72f** On two new ornithosaurians from Kansas. Am Ph Soc, Pr 12 : 420–422 (1872)

**72g** A description of the genus *Protostega*, a form of extinct Testudinata. Am Ph Soc, Pr 12 : 422–433 (1872)

**72h** [On new fossil reptiles from the Cretaceous of Kansas.] Ac N Sc Phila, Pr 1871 : 297–298 (1872)

**Cope,** Edward Drinker—Continued.

**72i** [On *Holops pneumaticus* from the Cretaceous green sand of New Jersey.] Ac N Sc Phila, Pr 1872 : 11–12

**72j** List of the Reptilia of the Eocene formation of New Jersey. Ac N Sc Phila, Pr 1872 : 14–18

**72k** On an extinct whale from California. Ac N Sc Phila, Pr 1872 : 29–30

**72l** [On *Bathmodon radians* from the Wasatch group.] Ac N Sc Phila, Pr 1872 : 38 (1872) Am J Sc (3) 4 : 238–239 (1872) Am Nat 6 : 438 (1872)

**72m** [On *Plesiosaurus gulo* and other reptilian remains from Sheridan, Kans.] Ac N Sc Phila, Pr 1872 : 127–129

**72n** [On *Pythonomorpha* and other reptiles from the Kansas Cretaceous.] Ac N Sc Phila, Pr 1872 : 140–141

**72o** Carboniferous reptiles of Ohio. Am Nat 6 : 46 (1872)

**72p** Food of *Plesiosaurus*. Am Nat 6 : 439 (1872)

**72q** The geological age of the coal of Wyoming. Am Nat 6 : 669–671 (1872)

**72r** The Eocene genus *Synoplotherium*. Am Nat 6 : 695 (1872)

**72s** The proboscidians of the American Eocene. Am Nat 6 : 773–774 (1872) ; 7 : 49 (1873)

**72t** The armed *Metalophodon*. Am Nat 6 : 774–775 (1872)

**72u** The fish beds of Osino, Nev. Am Nat 6 : 775 (1872)

**72v** On the extinct tortoises of the Cretaceous of New Jersey (*abst*). Am As, Pr 20 : 344–345 (1872)

**73** On the extinct Vertebrata of the Eocene of Wyoming ... with notes on the geology. U S G S Terr (Hayden), An Rp 6 : 543–649, il (1873)

**73a** Synopsis of new Vertebrata from the Tertiary of Colorado obtained during the summer of 1873. 19 pp, Washington 1873 [Printed in advance as extract from the seventh annual report of the U S G S Terr (Hayden)]

**73b** Paleontological Bulletins [Nos. 1–40] ; Preliminary [to Nos. 1–13], 2 pp, Phila, 1873

**73c** Descriptions of some new Vertebrata from the Bridger group of the Eocene. Am Ph Soc, Pr 12 : 460–465 (1873) Pal B no 1 : 6 pp (1872)

**73d** Second account of new Vertebrata from the Bridger Eocene. Am Ph Soc, Pr 12 : 466–468 (1873) Pal B no 2 : 3 pp (1872)

**73e** Third account of new Vertebrata from the Bridger Eocene of Wyoming Territory. Am Ph Soc, Pr 12 : 469–472 (1873) Pal B no 3 : 4 pp (1872)

**73f** On the existence of Dinosauria in the transition beds of Wyoming [*Agathaumas sylvestris*]. Am Ph Soc, Pr 12 : 481–483 (1873) Pal B no 4 : 2 pp n d [1872]

**Cope,** Edward Drinker—Continued.

**73g** Notice of proboscidians from the Eocene of southern Wyoming. Am Ph Soc, Pr 12 : 580 (1873) Pal B no 5 : 1 p (1872)

**73h** Notices of new Vertebrata from the upper waters of Bitter Creek, Wyoming Ter. Am Ph Soc, Pr 12 : 483–486 (1873) Pal B no 6 : 4 pp, n d [1872]

**73i** Second notice of extinct vertebrates from Bitter Creek, Wyo. Am Ph Soc, Pr 12 : 487–488 (1873) Pal B no 7 : 2 pp (1872)

**73j** On a new vertebrate genus from the northern part of the Tertiary basin of Green River [*Anaptomorphus aemulus*]. Am Ph Soc, Pr 12 : 554 (1873) Pal B no 8 : 1 p (1872)

**73k** Descriptions of new extinct reptiles from the upper Green River Eocene basin, Wyo. Am Ph Soc, Pr 12 : 554–555 (1873) Pal B no 9 : 1 p (1872)

**73l** [Age of the coal series of Bitter Creek, Wyo.] Ac N Sc Phila, Pr 1872 : 279–280 (1873) Pal B no 10 : 2 pp [1873]

**73m** On the new perissodactyles from the Bridger Eocene. Am Ph Soc, Pr 13 : 35–36 (1873) Pal B no 11 : 2 pp (1873)

**73n** On some Eocene mammals obtained by Hayden's geological survey of 1872. Pal B no 12 : 6 pp (1873)

**73o** On some of Prof. Marsh's criticisms. Am Nat 7 : 290–299, il (1873) Pal B no 13 : 8 pp (1873)

**73p** On some new extinct Mammalia from the Tertiary of the Plains. Pal B no 14 : 2 pp (1873)

**73q** Second notice of extinct Vertebrata from the Tertiary of the Plains. Pal B no 15 : 6 pp (1873)

**73r** Third notice of extinct Vertebrata from the Tertiary of the Plains. Pal B no 16 : 8 pp (1873)

**73s** Fourth notice of extinct Vertebrata from the Bridger and the Green River Tertiaries. Pal B no 17 : 4 pp (1873)

**73t** The monster of Mammoth Buttes [*Loxolophodon cornutus* Cope]. Penn Monthly 4 : 521–534, il (1873)

**73u** On a new genus of *Pleurodira* from the Eocene of Wyoming. Am Ph Soc, Pr 12 : 472–477 (1873)

**73v** On the Tertiary coal and fossils of Osino, Nev. Am Ph Soc, Pr 12 : 478–481 (1873)

**73w** On the dentition of *Metalophodon*. Am Ph Soc, Pr 12 : 542–545 (1873)

**73x** Note on the Cretaceous of Wyoming. Am J Sc (3) 5 : 230–231 (1873)

**73y** On the short footed Ungulata of the Eocene of Wyoming. Am Ph Soc, Pr 13 : 38–74 (1873) J Zool, Paris, 2 : 168–185, il (1873)

**73z** On the flat-clawed Carnivora of the Eocene of Wyoming. Am Ph Soc, Pr 13 : 198–209 (1873)

**Cope,** Edward Drinker—Continued.

**73za** On the osteology of the extinct tapiroid *Hyrachyus*. Am Ph Soc, Pr 13 : 212–224 (1873)

**73zb** [On saurodont fishes from the Niobrara of Kansas.] Ac N Sc Phila, Pr 1872 : 280–281 (1873)

**73zc** [Remarks on additional specimens of *Toxochelys latiremis* from the Cretaceous of Kansas.] Ac N Sc Phila, Pr 1873 : 10

**73zd** [Observations on the structure and systematic position of the genus *Eobasileus*.] Ac N Sc Phila, Pr 1873 : 10–12

**73ze** [On proboscidian remains from Wyoming.] Ac N Sc Phila, Pr 1873 : 102

**73zf** [On bones of *Sus scropha* from the Miocene of Wilson Co., N. C.] Ac N Sc Phila, Pr 1873 : 207

**73zg** [On batrachian remains from the Green River shale, Eocene, of Wyoming.] Ac N Sc Phila, Pr 1873 : 207–208

**73zh** Extinct turtles from the Eocene strata of Wyoming. Ac N Sc Phila, Pr 1873 : 277–279

**73zi** On two new species of Saurodontidae. Ac N Sc Phila, Pr 1873 : 337–339

**73zk** On some new Batrachia and fishes from the Coal Measures of Linton, Ohio. Ac N Sc Phila, Pr 1873 : 340–343

**73zl** The gigantic mammals of the genus *Eobasileus*. Am Nat 7 : 157–160 (1873)

**73zm** The *Eobasileus* again. Am Nat 7 : 180 (1873)

**73zn** On the tusk of *Loxolophodon cornutus*. Am Nat 7 : 315 (1873)

**73zo** On Professor Marsh's criticisms. Am Nat 7 : appendix to July no : 1 p (1873)

**74** Report on the vertebrate paleontology of Colorado. U S G Geog S Terr (Hayden), An Rp [7] : 427–533, il (1874)

**74a** Report on the stratigraphy and Pliocene vertebrate paleontology of northern Colorado. U S G Geog S Terr (Hayden), B [1] no. 1 : 9–28 (1874)

**74b** Review of the Vertebrata of the Cretaceous period found west of the Mississippi River. U S G Geog S Terr (Hayden), B [1] no 2 : 5–48 (1874)

**74c** Supplementary notices of fishes from the fresh-water Tertiaries of the Rocky Mountains. U S G Geog S Terr (Hayden), B [1] no 2 : 49–51 (1874)

**74d** Notes on the Eocene and Pliocene lacustrine formations of New Mexico, including descriptions of certain new species of vertebrates. *In* Wheeler, G. M., Annual report ... surveys west of the 100th meridian ... : 115–130 (1874) *Also in* U S [War Dp], Chief Eng, An Rp 1874 (U S, 43d Cong 2d sess, H Ex Doc 1 pt 2 v 2 pt 2) App FF : 591–606 (1874) *Extract*, with title, Report upon vertebrate fossils discovered in New Mexico ... : 18 pp, Washington 1874

**Cope, Edward Drinker**—Continued.

**74e** On the homologies and origin of the types of molar teeth of *Mammalia educabilia.* Ac N Sc Phila, J (2) 8 : 71–89, il (1874)

**74f** On the types of molar teeth. Ac N Sc Phila, Pr 1873 : 371 (1874)

**74g** [Remarks on fishes from the coal measures at Linton, Ohio.] Ac N Sc Phila, Pr 1873 : 417–419 (1874)

**74h** [On vertebrate fossils from the Miocene of Colorado. Ac N Sc Phila, Pr 1873 : 419–420 (1874)

**74i** [On the Cretaceous age of the lignites of the West.] Ac N Sc Phila, Pr 1874 : 10–11, 12–13

**74j** [On *Symborodon* from the Miocene of Colorado.] Ac N Sc Phila, Pr 1874 : 89–90

**74k** [On *Ctenodus,* a dipnoan fish, from the coal measures of Ohio.] Ac N Sc Phila, Pr 1874 : 91–92

**74l** [Observations on vertebrate fossils of Colorado.] Ac N Sc Phila, Pr 1874 : 116–117

**74m** Notes on the Santa Fe marls, and some of the contained vertebrate fossils. Ac N Sc Phila, Pr 1874 : 147–152 (1874) Pal B [no 18] : 147–152 (1874)

**74n** On *Eobasileus galeatus* from Wyoming and a walrus fossil cranium from Virginia. Am Ph Soc, Pr 14 : 17–18 (1874)

**74o** [On the anatomy and relations of *Poëbrotherium* Leidy.] Am Ph Soc, Pr 14 : 110 (1874)

**74p** The succession of life in North America. Penn Monthly 5 : 138–145 (1874) An Mag N H (4) 13 : 326–331 (1874)

**74q** On some extinct types of horned Perissodactyles. Am As, Pr 22, pt 2 : 108–109 (1874) An Mag N H (4) 13 : 405–406 (1874) Can Nat n s 7 : 169–171 (1874)

**75** The Vertebrata of the Cretaceous formations of the West. U S G S Terr (Hayden), Rp 2 : 303 pp, il (1875)

**75a** On the fishes of the Tertiary shales of the South Park [Colo.]. U S G Geog S Terr (Hayden), B [1] (2) 1 : 3–5 (1875)

**75b** Systematic catalogue of Vertebrata of the Eocene of New Mexico, collected in 1874. U S Geog S W 100th Mer (Wheeler) : 37 pp, Washington 1875

**75c** Report on the geology of that part of north-western New Mexico examined during the field season of 1874. *In* Wheeler, G M., Annual report ... surveys west of the 100th meridian ... : 61–97, il (1875) *Also in* U S [War Dp], Chief Eng, An Rp 1875 (U S, 44th Cong 1st sess, H Ex Doc 1 pt 2 v 2 pt 2) App LL : 981–1017, il (1875) [Includes description of *Unio cristonensis* from Triassic beds by F. B. Meek.]

**75d** Check list of North American Batrachia and Reptilia. ... U S Nat Mus, B 1 : 104 pp (1875)

**Cope,** Edward Drinker—Continued.

**75e** Synopsis of the extinct Batrachia from the coal measures. Ohio G S, Rp 2 pt 2 Paleontology : 349–411, il (1875)

**75f** Report on the vertebrate fossils from the Fort Union group of Milk River. *In* Dawson, G. M., Report on the geology ... of the forty-ninth parallel, British N Am Boundary Comm : 333–337, Montreal 1875

**75g** Synopsis of the Vertebrata whose remains have been preserved in the formations of North Carolina. *In* Kerr, W. C., Report of the geological survey of North Carolina 1, App : 29–52, il, Raleigh 1875

**75h** Supplement to the extinct Batrachia and Reptilia of N. America ; I, Catalogue of the air breathing Vertebrata from the Coal Measures of Linton, Ohio. Am Ph Soc, Tr n s 15 : 261–278 (1875)

**75i** Synopsis of the Vertebrata of the Miocene of Cumberland Co., N. J. Am Ph Soc, Pr 14 : 361–364 (1875)

**75j** On a new mastodon and rodent. Ac N Sc Phila, Pr 1874 : 221–223 (1875)

**75k** On the characters of *Symborodon.* Ac N Sc Phila, Pr 1874 : 224–225 (1875)

**75l** On the transition beds of the Saskatchewan district. Ac N Sc Phila, Pr 1875 : 9–10

**75m** The extinct Batrachia of Ohio. Ac N Sc Phila, Pr 1875 : 16

**75n** On green sand Vertebrata. Ac N Sc Phila, Pr 1875 : 19

**75o** On the homologies of the sectorial tooth of Carnivora. Ac N Sc Phila, Pr 1875 : 20–23

**75p** The feet of *Bathmodon.* Ac N Sc Phila, Pr 1875 : 73

**75q** On fossil lemurs and dogs. Ac N Sc Phila, Pr 1875 : 255–256

**75r** On the antelope deer of the Santa Fe marls. Ac N Sc Phila, Pr 1875 : 257

**75s** On some new fossil Ungulata. Ac N Sc Phila, Pr 1875 : 258–261 (1875) Pal B [no 19] : 8 pp (1875)

**75t** The phylogeny of the camels. Ac N Sc Phila, Pr 1875 : 261–262

**75u** The geology of New Mexico. Ac N Sc Phila, Pr 1875 : 263–267, 269 (1875) *Abst,* Am J Sc (3) 10 : 152–153 (1875)

**75v** On an extinct vulturine bird. Ac N Sc Phila, Pr 1875 : 271

**75w** On the Cretaceous beds of the Galisteo [sandstones of New Mexico]. Ac N Sc Phila, Pr 1875 : 359–360

**75x** On fossil remains of Reptilia and fishes from Illinois. An N Sc Phila, Pr 1875 : 404–411 (1875) An Mag N H (4) 17 : 178–184 (1875)

**75y** The value of paleontology. Penn Monthly 6 : 55–62 (1875)

**75z** The relation of man to the Tertiary Mammalia. Penn Monthly 6 : 879–886 (1875)

**Cope**, Edward Drinker—Continued.

**75za** The Wheeler geological survey of New Mexico for 1874. Am Nat 9 : 49–52 (1875)

**75zb** A new mastodon [*M. productus* Cope, Santa Fe marls]. Am Nat 9 : 56 (1875)

**75zc** Interesting fossils from Illinois [saurians and fishes]. Am Nat 9 : 573 (1875)

**75zd** Note on the genus *Calamodon*. Am J Sc (3) 9 : 228 (1875)

**76** On the supposed Carnivora of the Eocene of the Rocky Mountains. Ac N Sc Phila, Pr 1875 : 444–448 (1876) Pal B [no 20] : 4 pp (1875)

**76a** On a gigantic bird from the Eocene of New Mexico. Ac N Sc Phila, Pr 1876 : 10–11

**76b** On the Taeniodonta, a new group of Eocene Mammalia. Ac N Sc Phila, Pr 1876 : 39

**76c** On the geologic age of the vertebrate fauna of the Eocene of New Mexico. Ac N Sc Phila, Pr 1876 : 63–66 Am J Sc (3) 12 : 297–298 (1876) Pal B no 21 : 3 pp (1876) J Zool, Paris, 5 : 307–311 (1876)

**76d** On some supposed lemurine forms of the Eocene period. Ac N Sc Phila, Pr 1876 : 88–89

**76e** On a new genus of fossil fishes. Ac N Sc Phila, Pr 1876 : 113

**76f** On a new genus of Camelidae. Ac N Sc Phila, Pr 1876 : 144–147

**76g** Descriptions of some vertebrate remains from the Fort Union beds of Montana. Ac N Sc Phila, Pr 1876 : 248–261 (1877) Pal B no 22 : 14 pp (1876)

**77** Report upon the extinct Vertebrata obtained in New Mexico ... U S Geog S W 100th Mer (Wheeler), 4 pt 2 : 371 pp, il (1877)

**77a** Report on the geology of the region of the Judith River, Mont., and on vertebrate fossils obtained on or near the Missouri River. U S G Geog S Terr (Hayden), B 3 : 565–598, il (1877)

**77b** On a carnivorous dinosaurian from the Dakota beds of Colorado. U S G Geog S Terr (Hayden), B 3 : 805–806 (1877)

**77c** A contribution to the knowledge of the ichthyological fauna of the Green River shales. U S G Geog S Terr (Hayden), B 3 : 807–819 (1887)

**77d** On the genus *Erisichte*. U S G Geog S Terr (Hayden), B 3 : 821–823 (1877)

**77e** On some extinct reptiles and Batrachia from the Judith River and Fox Hills beds of Montana. Ac N Sc Phila, Pr 1876 : 340–359 (1877)

**77f** Cretaceous vertebrates of the upper Missouri. Ac N Sc Phila, Pr 1876 : 266 (1877)

**Cope**, Edward Drinker—Continued.

**77g** Vertebral column of an *Elasmosaurus* [*E. serpentinus*]. Am Ph Soc, Pr 16 : 393–394 (1877)

**77h** A continuation of researches among the Batrachia of the Coal Measures of Ohio. Am Ph Soc, Pr 16 : 573–578 (1877) Pal B no 24 : 573–578 (1877)

**77i** On a dinosaurian from the Trias of Utah [*Dystrophaeus*]. Am Ph Soc, Pr 16 : 579–584 (1877) Pal B no 24 : 579–584 (1877)

**77j** On a new proboscidian [*Caenobasileus*]. Am Ph Soc, Pr 16 : 584–585 (1877) Pal B no 24 : 584–585 (1877)

**77k** On the brain of *Coryphodon*. Am Ph Soc, Pr 16 : 616–620 (1877)

**77l** ... new locality of the Green River shales containing fishes, insects, and plants in a good state of preservation. Pal B no 25 : 1 (1877)

**77m** On a gigantic saurian from the Dakota epoch of Colorado [*Camarasaurus supremus*]. Pal B no 25 : 5–10 (1877)

**77n** On *Amphicoelias*, a genus of saurians from the Dakota epoch of Colorado. Pal B no 27 : 2–5 (1877)

**77o** The Suessonian fauna in North America. Am Nat 11 : 95–99 (1877)

**77p** The discovery of *Laelaps* in Montana. Am Nat 11 : 311 (1877)

**77q** The sea serpents of the Cretaceous period. Am Nat 11 : 311 (1877)

**77r** The dentition of the herbivorous Dinosauria of the lignitic period. Am Nat 11 : 311–312 (1877)

**77s** The lowest mammalian brain. Am Nat 11 : 312–313 (1877)

**77t** On the classification of the recent and fossil fishes (*abst*). Am Nat 11 : 501 (1877)

**77u** New fossil fishes from Wyoming (*abst*). Am Nat 11 : 570 (1877)

**77v** The largest known saurian [*Camaeosaurus supremus*]. Am Nat 11 : 629 (1877)

**77w** Remains of a huge saurian in Pennsylvania [*Palaeoctonus appalachianus*]. Am Nat 11 : 629 (1877)

**78** Descriptions of fishes from the Cretaceous and Tertiary deposits west of the Mississippi River. U S G Geog S Terr (Hayden), B 4 : 67–77 (1878)

**78a** Professor Owen on the Pythonomorpha. U S G Geog S Terr (Hayden), B 4 : 299–311 (1878)

**78b** Descriptions of new extinct Vertebrata from the upper Tertiary and Dakota formations. U S Geog S Terr (Hayden), B 4 : 379–396 (1878)

**78c** On the brain of *Procamelus occidentalis*. Am Ph Soc, Pr 17 : 49–52, il (1878)

**78d** On the Vertebrata of the bone bed in eastern Illinois. Am Ph Soc, Pr 17 : 52–63 (1878)

**Cope**, Edward Drinker—Continued.

**78e** On a new species of Adocidae from the Tertiary of Georgia. Am Ph Soc, Pr 17 : 82–84 (1878) Pal B no 25 : 2–4 (1877)

**78f** On some new or little known reptiles and fishes of the Cretaceous No. 3, of Kansas. Am Ph Soc, Pr 17 : 176–181 (1878) Pal B no 26 : 176–181 (1877)

**78g** Descriptions of extinct Vertebrata from the Permian and Triassic formations of the United States. Am Ph Soc, Pr 17 : 182–193 (1878) Pal B no 26 : 182–193 (1877)

**78h** On reptilian remains from the Dakota beds of Colorado. Am Ph Soc, Pr 17 : 193–196 (1878) Pal B no 26 : 193–196 (1877)

**78i** Descriptions of new Vertebrata from the upper Tertiary formations of the West. Am Ph Soc, Pr 17 : 219–231 (1878) Pal B no 28 : 219–231 (1878)

**78j** On some saurians found in the Triassic of Pennsylvania. Am Ph Soc, Pr 17 : 231–232 (1878) Pal B no 28 : 231–232 (1878)

**78k** On the Vertebrata of the Dakota epoch of Colorado. Am Ph Soc, Pr 17 : 233–247 (1878) Pal B no 28 : 233–247 (1878)

**78l** Descriptions of extinct Batrachia and Reptilia from the Permian formation of Texas. Am Ph Soc, Pr 17 : 505–530 (1878) Pal B no 29 : 505–530 (1878)

**78m** On the classification of the extinct fishes of the lower types. Am As, Pr 26 : 292–300 (1878)

**78n** The saurians of the Dakota epoch. Am Nat 12 : 56–57 (1878)

**78o** New artiodactyles of the upper Tertiary. Am Nat 12 : 58 (1878)

**78p** On the saurians recently discovered in the Dakota beds of Colorado. Am Nat 12 : 71–85, il (1878)

**78q** A new mastodon [*Tetralophodon campester*]. Am Nat 12 : 129 (1878)

**78r** A new genus of Dinosauria from Colorado [*Hypsirophus discurus*]. Am Nat 12 : 188–189 (1878)

**78s** A new deer from Indiana [*Cariacus dolichopsis*]. Am Nat 12 : 189 (1878)

**78t** [Review of] contributions to the fossil flora of the western territories; Part II, The Tertiary flora by L. Lesquereux. Am Nat 12 : 243–246 (1878)

**78u** The homology of the chevron bones. Am Nat 12 : 319 (1878)

**78v** The structure of *Coryphodon*. Am Nat 12 : 324–326 (1878)

**78w** A new fauna [Permian]. Am Nat 12 : 327–328 (1878)

**78x** A new opisthocoelous dinosaur [*Epanterias amplexus*]. Am Nat 12 : 406 (1878) An Mag N H (5) 2 : 194 (1878)

**78y** Prof. Marsh on Permian reptiles. Am Nat 12 : 406–408 (1878)

**Cope**, Edward Drinker—Continued.

**78z** The species of rhinoceros of the Loup Fork epoch. Am Nat 12 : 488–489 (1878)

**78za** A new species of *Amphicoelias* [*A. fragillimus*]. Am Nat 12 : 563–564, il (1878)

**78zb** A new *Diadectes* [*D. molaris*]. Am Nat 12 : 565 (1878)

**78zc** The vertebrae of *Rachitomus*. Am Nat 12 : 633 (1878)

**78zd** The theromorphous Reptilia. Am Nat 12 : 829–830 (1878)

**79ze** On the saurians of the Dakota Cretaceous rocks of Colorado (*abst*). Nature 18 : 476 (1878)

**78zf** On the remains of a Permian fauna in North America (*abst*). Nature 18 : 482 (1878)

**78zg** Theromorphous reptiles. Science News 1 : 40 (1878)

**79** The relations of the horizons of extinct Vertebrata of Europe and North America. U S G Geog S Terr (Hayden), B 5 : 33–54 (1879)

**79a** Observations on the faunae of the Miocene Tertiaries of Oregon. U S G Geog S Terr (Hayden) B 5 : 55–69 (1879)

**79b** On the extinct species of Rhinoceridae of North America and their allies. U S G Geog S Terr (Hayden), B 5 : 227–237 (1879)

**79c** On some of the characters of the Miocene fauna of Oregon. Am Ph Soc, Pr 18 : 63–78 (1879) Pal B no 30 : 16 pp (1878)

**79d** On the genera of Felidae and Canidae. Ac N Sc Phila, Pr 1879 : 168–194 An Mag N H (5) 5 : 36–45, 92–107 (1880)

**79e** The necks of the Sauropterygia. Am Nat 13 : 132 (1879)

**79f** The origin of the specialized teeth of the Carnivora. Am Nat 13 : 171–173 (1879)

**79g** *Merycopater* and *Hoplophoneus*. Am Nat 13 : 197 (1879)

**79h** A new genus of Perissodactyla [*Anchisodon*]. Am Nat 13 : 270–271 (1879)

**79i** A new genus of Ichthyopterygia. Am Nat 13 : 271 (1879)

**79j** The *Amyzon* Tertiary beds [Nev.]. Am Nat 13 : 332 (1879)

**79k** A sting ray from the Green River shales of Wyoming. Am Nat 13 : 333 (1879)

**79l** American Aceratheria. Am Nat 13 : 333–334 (1879)

**79m** The lower jaw of *Loxolophodon*. Am Nat 13 : 334 (1879)

**79n** New Jurassic Dinosauria. Am Nat 13 : 402–404, il (1879)

**79o** A new *Anchitherium* [*A. praestans*]. Am Nat 13 : 462–463 (1879)

**79p** On the extinct American rhinoceroses and their allies. Am Nat 13 : 771a–771j, il (1879)

**Cope,** Edward Drinker—Continued.

**79q** The cave bear of California. Am Nat 13 : 791 (1879) An Mag N H (5) 5 : 260–261 (1880) Am J Sc (3) 19 : 155 (1880)

**79r** [A vertebrate collecting trip.] Am Nat 13 : 798a–798b (1879)

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HAL MEADOW

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HAL MEADOW

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**63b** Note on a fossil echinoderm from the Blue Limestone (Lower Silurian) of Cincinnati, Ohio. Am J Sc (2) 35 : 295 (1863)

**63c** On the Appalachians and Rocky Mountains as time boundaries in geological history. Am J Sc (2) 36 : 227–233 (1863)

**63d** On certain parallel relations between the classes of vertebrates, and on the bearing of these relations on the question of the distinctive features of the reptilian birds. Am J Sc (2) 36 : 315–321 (1863)

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**66** Observations on the origin of some of the earth's features. Am J Sc (2) 42 : 205–211, 252–253 (1866)

**67** Crystallogenic and crystallographic contributions. Am J Sc (2) 44 : 89–95, 252–263, 398–409 (1867) Ph Mag (4) 34 : 178–185 (1867)

**67a** On mineralogical nomenclature. Am J Sc (2) 44 : 145–151, 436 (1867) *Abst,* Ph Mag (4) 34 : 407–408 (1867)

**68** (and others) Recent eruption of Mauna Loa and Kilauea, Hawaii. Am J Sc (2) 46 : 105–123 (1868)

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**71b** Historical notes of the earthquakes of New England, 1638–1869. Am J Sc (3) 1 : 304–3 5 (1871)

**71c** On the supposed legs of the trilobite *Asaphus platycephalus.* Am J Sc (3) 1 : 320–321, 386 (1871) An Mag N H (4) 7 : 366–368 (1871) Can Nat n s 6 : 348–350 (1872)

**71d** Note on river terraces. Am J Sc (3) 2 : 144–145 (1871)

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**71g** Triassic sandstone of the Palisade Range. Am J Sc (3) 2 : 459–460 (1871)

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**72d** On the oceanic coral island subsidence. Am J Sc (3) 4 : 31–37 (1872)

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**72f** [On the rock of the Palisades, N. J.] Am J Sc (3) 4 : 237 (1872)

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**73b** The slates of the Taconic Mountains of the age of the Hudson River or Cincinnati group. Am Nat 7 : 708–710 (1873) Am As, Pr 22 pt 2 : 27–29 (1874)

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**73h** On rocks of the Helderberg era in the valley of the Connecticut... Am J Sc (3) 6 : 339–352 (1873)

**74** Note on metamorphism and pseudomorphism... Boston Soc N H, Pr 17 : 167–170 (1874)

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**76** Note on the "chloritic formation" on the western border of the New Haven region. Am J Sc (3) 11 : 119–122 (1876)

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**78b** On some points in lithology. Am J Sc (3) 16 : 335–343, 431–440 (1878) Can Nat n s 9 : 40–48, 80–91 (1879) *Abst,* G Mag (2) 6 : 222–225 (1879)

**79** Note on mountain making by the contraction of the earth's crust. Am J Sc (3) 17 : 325–326 (1879)

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**79b** On the composition of the capillary volcanic glass of Kilauea, Hawaii, called Pele's hair. Am J Sc (3) 18 : 134–135 (1879)

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**80** Gilbert's report on the geology of the Henry Mountains. Am J Sc (3) 19 : 17–25 (1880)

**80a** List of papers on the Taconic system. Am J Sc (3) 19 : 153–155 (1880)

**80b** Note on the age of the Green Mountains. Am J Sc (3) 19 : 191–200 (1880)

**80c** Age of the Taconic rocks ... Am J Sc (3) 19 : 236–237 (1880)

**80d** On the geological relations of the limestone belts of Westchester Co., N. Y. Am J Sc (3) 20 : 21–32, 194–220, 359–375, 450–456 (1880) ; 21 : 425–443 ; 22 : 103–119, 313–315, 327–335, maps (1881)

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**83c** Hemidiorite. Am J Sc (3) 25 : 478 (1883)

**83d** Elevated coral reefs of Cuba. Am J Sc (3) 26 : 148–149 (1883)

**83e** Phenomena of the glacial and Champlain periods about the mouth of the Connecticut Valley—that is, in the New Haven region. Am J Sc (3) 26 : 341–361, map (1883) ; 27 : 113–130, maps (1884)

**83f** The Tortugas and Florida reefs. Am J Sc (3) 26 : 408–409 (1883)

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**84d** Note on the making of limonite ore beds. Am J Sc (3) 28 : 398–400 (1884)

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**86d** On some general terms applied to metamorphism, and to the porphyritic structure of rocks. Am J Sc (3) 32 : 69–72 (1886)

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**90g** Fossils in the Taconic limestone belt at the west foot of the Taconic Range in Hillsdale, N. Y. Am J Sc (3) 40 : 256–257 (1890)

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**99** Duplication of geologic formation names. Science n s 9 : 592–593 (1899)

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**48a** On the boulder formation and superficial deposits of Nova Scotia. R Soc Edinb, Pr 2: 141–142 (title on p 140) (1848)

**48b** On the New Red Sandstone of Nova Scotia. G Soc London, Q J 4: 50–59, map (1848)

**49** On the coloring matter of red sandstones and of greyish and white beds associated with them. G Soc London, Q J 5: 25–30 (1849)

**49a** Notice of the gypsum of Plaister Cove in the Strait of Canseau [Nova Scotia]. G Soc London, Q J 5: 335–339 (1849)

**50** On the metamorphic and metalliferous rocks of eastern Nova Scotia. G Soc London, Q J 6: 347–364, map (1850)

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**52** Additional notes on the red sandstones of Nova Scotia. G Soc London, Q J 8: 398–400 (1852)

**53** On the Albert mine, Hilsborough, N. B. G Soc London, Q J 9: 107–114 (1853)

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**54** On the coal measures of the South Joggins, N. S. G Soc London, Q J 10: 1–42, il (1854)

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**54b** On fossil coniferous wood from Prince Edward Island. Ac N Sc Phila, Pr 7: 62–64 (1854)

**55** Acadian geology; an account of the geological structure and mineral resources of Nova Scotia and portions of the neighboring provinces of British America. 388 pp, il, map, Edinburgh 1855; 2d ed, 694 pp, il, map, L 1868; 3d ed, 694, 102 pp, il, map, L 1878; 4th ed, 694 pp, il, map, L 1891; with supplement to 2d ed, 102 pp, L 1878; and supplementary note to 4th ed, 37 pp, 1891 Rv by E. J. Chapman, Can J n s 1: 39–48 (1856)

**55a** Notice of the discovery of a reptilian skull in the coal of Pictou [N. S.]. G Soc London, Q J 11: 8–9 (1855)

**55b** On a modern submerged forest at Fort Lawrence, N. S. G Soc London, Q J 11: 119–122 (1855) Am J Sc (2) 21: 440–442 (1856)

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**57c** Remarks on a specimen of fossil wood from the Devonian rocks (Gaspe sandstones) of Gaspe, Canada East. Am As, Pr 10 pt 2: 174–176, il (1857)

**57d** On the varieties and mode of preservation of the fossils known as Sternbergiæ. Can Nat 2: 299–305, il (1857) Am As, Pr 11 pt 2: 67–74, il (1858) *Abst,* Can J n s 2: 476–479 (1857)

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**58** Report of the Geological Survey of Canada, 1853 to 1856. Can Nat 3: 32–39, 81–97 (1858)

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**58b** A week in Gaspé. Can Nat 3 : 321–331 (1858)

**58c** Newer Pliocene fossils of the St. Lawrence Valley (*abst*). Can J n s 3 : 86–87 (1858)

**59** On the lower coal measures as developed in British America. G Soc London, Q J 15 : 62–76, il (1859) *Abst,* Can Nat 3 : 190–192 (1858) ; 4 : 303–305 (1859)

**59a** On fossil plants from the Devonian rocks of Canada. G Soc London, Q J 15 : 477–488, il (1859) Can Nat 5 : 1–14, il (1860) *Abst,* Can Nat 4 : 303–305 (1859) ; Ph Mag (4) 17 : 147–148 (1859)

**59b** On the vegetable structures in coal. G Soc London, Q J 15 : 626–641, il (1859) *Abst,* Can J n s 5 : 305–307 (1860) ; Ph Mag (4) 17 : 308–310 (1859)

**59c** Additional notes on the post-Pliocene deposits of the St. Lawrence Valley. Can Nat 4 : 23–39, il (1859) *Abst,* Am J Sc (2) 27 : 434–436 (1859)

**59d** On the microscopic structure of some Canadian limestones. Can Nat 4 : 161–169 (1859)

**60** Supplementary chapter to "Acadian geology"... 70 pp, Edinburgh 1860

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**60b** On the Silurian and Devonian rocks of Nova Scotia. Can Nat 5 : 132–143 (1860)

**60c** Notice of Tertiary fossils from Labrador, Maine, etc., and remarks on the climate of Canada in the newer Pliocene or Pleistocene period. Can Nat 5 : 188–200, il (1860)

**60d** Notes on the earthquake of October, 1860. Can Nat 5 : 363–372 (1860)

**60e** On an undescribed fossil fern from the lower coal measures of Nova Scotia. Can Nat 5 : 460–461 (1860) G Soc London, Q J 17 : 5 (1861)

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**61** On an erect *Sigillaria* from the South Joggins, N. S. G Soc London, Q J 17 : 522–524 (1861) Can Nat 7 : 106–111, il (1861)

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**61b** Notes on the geology of Murray Bay, lower St. Lawrence. Can Nat 6 : 138–150 (1861)

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**61c** On the pre-Carboniferous flora of New Brunswick, Maine, and eastern Canada. Can Nat 6 : 161–180, il (1861)

**61d** Drift deposits of western Canada. Can Nat 6 : 219–224 (1861)

**61e** The earthquake of July 12, 1861 [Canada]. Can Nat 6 : 329 (1861)

**61f** On the recent discoveries of gold in Nova Scotia. Can Nat 6 : 417–430 (1861)

**61g** [Descriptions of new species of fossil plants from Perry, Me.]. Me Bd Agr, 6th An Rp : 249–251, il (1861)

**62** Notice of the discovery of additional remains of land animals in the coal measures of the South Joggins, N. S. G Soc London, Q J 18 : 5–7 (1862)

**62a** On the flora of the Devonian period in northeastern America. G Soc London, Q J 18 : 296–330, il (1862) Am J Sc (2) 35 : 311–319 ; 36 : 41–42 (1863) *Abst,* Can Nat 7 : 223–224 (1862)

**62b** Notes on the flora of the White Mountains in its geographical and geological relations. Can Nat 7 : 81–102 (1862)

**62c** On the footprints of *Limulus* as compared with the *Protichnites* of the Potsdam sandstone. Can Nat 7 : 271–277 (1862) *Abst,* Am J Sc (2) 34 : 416–417 (1862)

**62d** Fossil plants discovered at Perry, Me.] Portland Soc N H, Pr 1 : 99–100, il (1869) [1862] Me Bd Agr, 7th An Rp : 402–404 (1862)

**63** Air breathers of the coal period; a descriptive account of the remains of land animals found in the coal formation of Nova Scotia... 81 pp, il, Montreal 1863 Can Nat 8 : 1–12, 81–92, 159–160, 161–175, 268–295, il (1863)

**63a** On the coal measures of Cape Breton [N. S.] Am Ph Soc, Pr 9 : 165–167, 208–209 (1863)

**63b** Further observations on the Devonian plants of Maine, Gaspé, and New York. G Soc London, Q J 19 : 458–469, il (1863)

**63c** Notice of a new species of *Dendrerpeton* and of the dermal coverings of certain Carboniferous reptiles. G Soc London, Q J 19 : 469–473 (1863)

**63d** On American Devonian. Am J Sc (2) 35 : 309–311 (1863)

**63e** Note on the footprints of a reptile from the coal formation of Cape Breton. Can Nat 8 : 430–431, il (1863)

**63f** Synopsis of the flora of the Carboniferous period in Nova Scotia. Can Nat 8 : 431–457 (1863) *Abst,* Am J Sc, (2) 37 : 419–426 (1864)

**63g** On two new coal plants from Nova Scotia (*abst*). Edinb N Ph J n s 18 : 298 (1863)

**64** Address [on some points in Canadian geology]. Can Nat n s 1 : 218–229 (1864) Am J Sc (2) 38 : 231–239 (1864)

**Dawson,** John William—Continued.

**64a** On the fossils of the genus *Rusophycus.* Can Nat n s 1 : 363–367, 458, il (1864)

**64b** On two new coal plants from Nova Scotia (*abst*). Brit As, Rp 33 : sec 67–68 (1864)

**65** Notes on post-Pliocene deposits at Riviere-du-Loup and Tadoussac. Can Nat n s 2 : 81–88 (1865)

**65a** [Presidential address: progress of geology in Canada.] Can Nat n s 2 : 300–304 (1865)

**65b** On the structure of certain organic remains in the Laurentian limestones of Canada. G Soc London, Q J 21 : 51–59, il (1865) Can Nat n s 2 : 99–111, 127–128, il (1865)

**65c** Notes on the post-Pliocene deposits of Canada (*abst*). G Mag 2 : 561–563 (1865) Brit As, Rp 35 : sec 50 (1866)

**65d** The successive Paleozoic floras in eastern North America (*abst*). Brit As, Rp 35 : sec 50–51 (1866) Can Nat n s 2 : 452–454 (1865)

**65e** General view of the Paleozoic floras of North America (*abst*). G Mag 2 : 568–569 (1865)

**66** On the conditions of the deposition of coal, more especially as illustrated by the coal formation of Nova Scotia and New Brunswick. G Soc London, Q J 22 : 95–169, il (1866) *Abst,* G Mag 3 : 79 (1866)

**66a** Note on supposed burrows of worms in the Laurentian rocks of Canada. G Soc London, Q J 22 : 608–609, il (1866) *Abst,* Can Nat n s 3 : 321–322 (1868)

**66b** Comparisons of the icebergs of Belle Isle with the glaciers of Mont Blanc, with reference to the boulder clay of Canada. Can Nat n s 3 : 33–44 (1866)

**66c** The evidence of fossil plants as to the climate of the post-Pliocene period in Canada. Can Nat n s 3 : 69–76, il (1866) *Abst,* J Bot, London, 5 : 121–122 (1867)

**67** On the discovery of a new pulmonate mollusk (*Zonites* (*Conulus*) *priscus* Cpr.) in the coal formation of Nova Scotia; with a description of the species by P. P. Carpenter. G Soc London, Q J 23 : 330–333, il (1867) *Abst,* Q J Sc 5 : 98 (1868)

**67a** Notes on fossils recently obtained from the Laurentian rocks of Canada, and on objections to the organic nature of *Eozoon.* G Soc London, Q J 23 : 257–265, il (1867) Am J Sc (2) 44 : 367–376 (1867) Can Nat n s 3 : 312–321, il (1868)

**67b** On some remains of Paleozoic insects recently discovered in Nova Scotia and New Brunswick. G Mag 4 : 385–388, il (1867) Can Nat n s 3 : 202–206, il (1867)

**67c** Coal discoveries and Primordial fossils in Nova Scotia. G Mag 4 : 73–74 (1867)

**Dawson,** John William—Continued.

**67d** Coal of Pictou, Nova Scotia. G Mag 4 : 74 (1867)

**68** On new specimens of *Eozoon canadense...* Am J Sc (2) 46 : 245–255, il (1868)

**68a** Note [on Carboniferous beds of Nova Scotia]. Can Nat n s 3 : 224 (1868)

**68b** Notices of some remarkable genera of plants of the coal formation. Can Nat n s 3 : 362–374, il (1868)

**68c** On recent geological discoveries in the Acadian provinces of British America (*abst*). Am As, Pr 16 : 117–119 (1868) Can Nat n s 3 : 295–297 (1868)

**69** On Calamites. An Mag N H (4) 4 : 272–273 (1869)

**69a** The Wakefield cave [Ontario.]. Can Nat n s 4 : 71–73 (1869)

**69b** Geological time. Can Nat n s 4 : 73–78 (1869)

**69c** Deep sea dredging in its relation to geology. Can Nat n s 4 : 78–81 (1869)

**69d** *Calamites* and *Calamodendron.* Can Nat n s 4 : 81–85 (1869)

**69e** On some new fossil plants, etc., from Gaspé (*abst*). Can Nat n s 4 : 464–465 (1869)

**69f** The primeval flora. Sc Am 20 : 34–35 (1869); Nat Sc News 2 : 29–32 (1896)

**70** The primitive vegetation of the earth. R Inst, Pr 6 : 165–172, il (1870) Nature 2 : 85–88 (1870) Am Nat 4 : 474–483 (1870)

**70a** Note on the genus *Eophyton.* Can Nat n s 5 : 20–22 (1870)

**70b** The earthquake of October 20, 1870. Can Nat n s 5 : 282–289 (1870)

**70c** Notes on new points and corrections in Acadian geology. N S Inst N Sc, Pr Tr 2 pt 3 : 166–169 (1870)

**70d** On the pre-Carboniferous floras of northeastern America, with especial reference to that of the Erian (Devonian) period (*abst*). R Soc London, Pr 18 : 333–335 (1870) An Mag N H (4) 6 : 103–105 (1870)

**70e** On the graphite of the Laurentian of Canada. G Soc London, Q J 26 : 112–117 (1870); *abst,* 25 : 406 (1869) Can Nat n s 5 : 13–20 (1870)

**70f** Notes on the structure of *Sigillaria* (*abst*). G Soc London, Q J 26 : 165–166 (1870) Ph Mag (4) 40 : 74–75 (1870) G Mag 7 : 87 (1870) Can Nat n s 5 : 98 (1870)

**70g** Note on some animal remains from the Carboniferous and Devonian of Canada (*abst*). G Soc London, Q J 26 : 166 (1870) G Mag 7 : 87–88 (1870) Ph Mag (4) 40 : 75 (1870) Can Nat n s 5 : 98–99 (1870)

**Dawson,** John William—Continued.

**70h** On the structure and affinities of *Sigillaria, Calamites,* and *Calamodendron.* G Soc London, Q J 27 : 147–161 (1871) ; *abst,* 26 : 488–490 (1870) *Abst,* Ph Mag (4) 40 : 384–386 (1870) ; G Mag 7 : 293–294 (1870)

**70i** Handbook of zoology, with examples from Canadian species, recent and fossil. 264 pp, il, Montreal 1870 [1st and 2d ed. not seen] 3d ed, 304 pp, il, Montreal 1886

**71** (and **Harrington,** B. J.) Report on the geological structure and mineral resources of Prince Edward Island. 52 pp, il, Montreal 1871

**71a** The post-Pliocene geology of Canada. Can Nat n s 6 : 19–42, 166–187, 241–259, 369–416, il, map (1871) Reprint, with title, Notes on the post-Pliocene geology of Canada... 112 pp, il, Montreal 1872

**71b** The fossil plants of the Devonian and Upper Silurian formations of Canada. Can G S [pt 1] : 1–92, il (1871) ; pt 2 : 93–142, il (1882)

**71c** On new tree ferns and other fossils from the Devonian. G Soc London, Q J 27 : 269–274, il (1871) *Abst,* Ph Mag (4) 42 : 231–232 (1871) ; G Mag 8 : 231–232 (1871)

**71d** Note on *Eozoon canadense.* R Irish Ac, Pr (2) 1 : 117–123, 129–131 (1871)

**71e** On spore cases in coals. Am J Sc (3) 1 : 256–263, il (1871)

**71f** On the bearing of Devonian botany on questions as to the origin and extinction of species. Am J Sc (3) 2 : 410–416 (1871)

**71g** Some new facts in fossil botany. G Mag 8 : 236–237 (1871)

**72** On the *Eozoon.* Am J Sc (3) 4 : 65–69 (1872)

**72a** Devonian and Lower Carboniferous plants. Am J Sc (3) 4 : 236–237 (1872)

**72b** Notes on the geology of Prince Edward Island in the Gulf of St. Lawrence. G Mag 9 : 203–209 (1872)

**72c** Note on footprints from the Carboniferous of Nova Scotia G Mag 9 : 251–253, il (1872)

**72d** On the physical geography of Prince Edward Island (*abst*). Can Nat n s 6 : 342–343 (1872)

**73** Report on the fossil plants of the Lower Carboniferous and Millstone Grit formations of Canada. 47 pp, il, Can G S 1873

**73a** Note on the fossil plants from British Columbia ... Can G S, Rp Prog 1872–3 : 66–71, il (1873) *Abst,* Am J Sc (3) 7 : 47–51 (1874)

**73b** Annual address of the president of the Natural History Society of Montreal. Can Nat n s 7 : 1–11 (1873)

**73c** Remarks on Mr. Carruthers' view of *Prototaxites.* Mo Micro J 10 : 66–71 (1873) Can Nat n s 7 : 173–178 (1874)

**73d** Impressions and footprints of aquatic animals and imitative markings on Carboniferous rocks. Am J Sc (3) 5 : 16–24, il (1873) Can Nat n s 7 : 65–74, il (1873)

**73e** On the introduction of genera and species in geological time. Q J Sc 10 (n s 3) : 363–366 (1873)

**73f** Note in vindication of *Leptophlœum rhombicum* and *Lepidodendron gaspianum.* G Soc London, Q J 29 : 369–371 (1873) *Abst,* G Mag 10 : 234–235 (1873)

**73g** American lake basins and Artic currents. G Mag 10 : 137–138 (1873)

**74** Annual address before the Natural Natural History Society of Montreal. Can Nat n s 7 : 277–291 (1874)

**74a** On the upper coal formation of eastern Nova Scotia and Prince Edward Island in its relation to the Permian. G Soc London, Q J 30 : 209–219 (1874) *Abst,* G Mag (2) 1 : 281–282 (1874) : Can Nat n s 7 : 303–304 (1874)

**74b** On the geological relations of the iron ores of Nova Scotia. Am As, Pr 22 pt 2 : 138–146 (1874) Can Nat n s 7 : 129–138 (1874)

**74c** *Eozoon canadense.* Nature 10 : 103, il (1874)

**74d** Note on a new *Sigillaria* showing scars of fructification (*abst.*) Am As, Pr 22 pt 2 : 75–76 (1874) Can Nat n s 7 : 171 (1874)

**75** Life's dawn on earth ; being the history of the oldest known fossil remains... 239 pp, il, L 1875

**75a** Address [of the vice president of the Association].* [Teaching of paleontology on the origin and history of life on the earth]. Am As, Pr 24 pt 2 : 3–26 (1876) (also separate, 26 pp, Montreal 1875 Am Nat 9 : 529–522 (1875)

**75b** Note on the plants collected by Mr. G. M. Dawson, from the Lignite Tertiary deposits near the forty-ninth parallel. *In* Dawson, G. M., Report on the geology ... of the forty-ninth parallel, British N Am Boundary Comm : 327–331, il, Montreal 1875

**75c** Carboniferous conifers. Am J Sc (3) 10 : 301–302 (1875)

**75d** Primitive man and revelation. Victoria Inst, Tr 8 : 59–63 (1875)

**76** Note on the phosphates of the Laurentian and Cambrian rocks of Canada. G Soc London, Q J 32 : 285–291 (1876) Can Nat n s 8 : 162–170 (1876)

**76a** On a recent discovery of Carboniferous batrachians in Nova Scotia. Am J Sc (3) 12 : 440–447 (1876)

**76b** On some new specimens of fossil Protozoa from Canada. Am As, Pr 24 pt 2 : 100–105, il (1876)

**76c** Note on specimen of metadiabase from Connecticut Lake. Am J Sc (3) 12 : 395 (1876)

**Dawson,** John William—Continued.

**76d** On the occurrence of *Eozoon canadense* at Côte St. Pierre [Que.]. G Soc London, Q J 32 : 66–74, il (1876) *Abst,* G Mag (2) 2 : 334–335 (1875)

**76e** On Mr. Carter's objection to *Eozoon.* An Mag N H (4) 17 : 118–119 (1876)

**76f** *Eozoon canadense,* according to Hahn. An Mag N H (4) 18 : 29–38 (1876)

**76g** Carboniferous pulmonates. Am J Sc (3) 12 : 226–227 (1876) Carboniferous land shells. Nature 14 : 317 (1876)

**77** Annual address [of the president of the Natural History Society of Montreal]. Can Nat n s 8 : 293–303 (1877)

**77a** Note on a specimen of *Diploxylon* from the coal formation of Nova Scotia. G Soc London, Q J 33 : 836–842, il (1877) *Abst,* An Mag N H (4) 20 : 152–153 (1877) ; Can Nat n s 8 : 240–250 (1877)

**77b** New facts relating to *Eozoon canadense.* Am As, Pr 25 : 231–234 (1877) Can Nat n s 8 : 282–285 (1877)

**77c** [On the geology of Belœil mountain, Quebec.] Can Nat n s 8 : 286–288 (1877)

**77d** Lower Carboniferous fishes of New Brunswick. Can Nat n s 8 : 337–340, il (1877)

**77e** Note on a fossil seal from the Leda clay of the Ottawa Valley. Can Nat n s 8 : 340–341 (1877)

**77f** The earthquake of November 4, 1877. Can Nat n s 8 : 342–345 (1877) Am J Sc (3) 15 : 321–324 (1877)

**77g** Notes on two Paleozoic crustaceans from Nova Scotia. G Mag (2) 4 : 56–58, il (1877)

**77h** Fossil floras and glacial periods. Nature 16 : 67–68 (1877)

**77i** The origin of the world according to revelation and science. Montreal 1877 4th ed, 438, pp, L 1886 6th ed, 452 pp, L 1893 [other editions not seen]

**78** Supplement to the second edition of Acadian geology... 102 pp, L 1878

**78a** *Stromatopora* as distinguished from *Millepora.* An Mag N H (5) 2 : 28–30 (1878)

**78b** Evolution and the apparition of animal forms. Princeton Rv yr 54 (n s) 1 : 662–675 (1878)

**78c** Fossil agricultural implements. Victoria Inst, Tr 11 : 29–32 (1878)

**79** On the microscopic structure of Stromatoporidae and on Paleozoic fossils mineralized with silicates in illustration of *Eozoon.* G Soc London, Q J 35 : 48–66, il (1879)

**79a** The genesis and migrations of plants. Princeton Rv 3 : 277–294 (1879) Nature 20 : 257–258 (1879)

**79b** List of Tertiary plants from localities in the southern part of British Columbia, with the description of a new species of *Equisetum.* Can G S, Rp Prog 1877–8 : B 186–187 (1879)

**Dawson,** John William—Continued.

**79c** Remarks on recent papers on the geology of Nova Scotia. Can Nat n s 9 : 1–16 (1879)

**79d** A Canadian *Pterygotus* (*Pterygotus canadensis*). Can Nat n s 9 : 103–105, il (1879)

**79e** Möbius on *Eozoon canadense.* Am J Sc (3) 17 : 196–202 (1879) Can Nat n s 9 : 105–112 (1879)

**79f** [Presidential address before the Natural History Society of Montreal.] Can Nat n s 9 : 165–180 (1879)

**79g** Notes on recent controversies respecting *Eozoon canadense.* Can Nat n s 9 : 228–240 (1879)

**79h** Semi-metamorphic fossiliferous rocks containing serpentine. Am J Sc (3) 17 : 327–328 (1879)

**80** Fossil men and their modern representatives... 348 pp, Montreal 1880 2d ed, 354 pp, L 1883

**80a** The chain of life in geological time... 272 pp, L [1880] ; 2d ed, 1885 ; 3d ed, 1888

**80b** Lecture notes on geology and outline of the geology of Canada... 100 pp, il, Montreal 1880 [not seen]

**80c** Note on the geological relations of the fossil insects from the Devonian of New Brunswick. Boston Soc N H, Anniv Mem : 34–41 (of Scudder's paper) (1880)

**80d** New facts respecting the geological relations and fossil remains of the Silurian iron ores of Pictou, N. S. Can Nat n s 9 : 313–314, 332–344 (1880)

**80e** Abstract of notes...on fossil plants collected...in the lignite Tertiary formation of Roches Percées, Souris River, Manitoba. Can Nat n s 9 : 447–448 (1880)

**80f** Revision of the land snails of the Paleozoic era, with descriptions of new species. Am J Sc (3) 20 : 403–415, il (1880) Can Nat n s 9 : 449–463, il (1881)

**80g** New Devonian plants and other Canadian fossils (*abst*). Can Nat n s 9 : 472–473 (1880)

**80h** On land snails of the Paleozoic period. (*abst*). Science (ed, Michels) 1 : 136 (1880)

**81** Note ... on fossil plants, collected .. in the lignite Tertiary formation of Roche Percée, Souris River [Saskatchewan]. Can G S, Rp Prog 1879–80 : A 51–55 (1881)

**81a** Note on Cretaceous fossil plants from the Peace River country. Can G S, Rp Prog 1879–80 : B 120–122 (1881)

**81b** On the structure of a specimen of *Uphantaenia* ... Am Mus N H, B 1 : 12–13 (1881) Am J Sc (3) 22 : 132–133 (1881)

**81c** Notes on new Erian (Devonian) plants. G Soc London, Q J 37 : 299–308, il (1881) *Abst,* Can Nat n s 9 : 475–476 (1881)

**81d** The oldest known insects. Nature 24 : 483–484 (1881)

**Dawson,** John William—Continued.

**81e** Note on *Spirorbis* contained in an ironstone nodule from Mazon Creek [Ill.] with millipede. Boston Soc N H, Pr 21 : 157–158 (1881)

**81f** Paleontological notes; 1, A new species of *Piloceras;* 2, *Saccammina* ? (*Calcisphœra*) *eriana;* 3, New Devonian plants from the Bay de Chaleur. Can Nat n s 10 : 1–11, il (1881)

**81g** Note on a fern associated with *Platephemera antiqua* Scudder. Can Nat n s 10 : 102–104 (1881)

**81h** The antiquity of man and the origin of species., Kansas City Rv Sc 4 : 530–536, 595–600 (1881)

**81i** *Stromatopora* and *Caunopora.* G Mag (2) 8 : 141 (1881)

**82** On the results of recent explorations of erect trees containing animal remains in the coal formation of Nova Scotia. R Soc London, Pr 33 : 254–256 (*abst*); Ph Tr 173 : 621–659, il (1882) *Abst,* Nature 25 : 354 (1882); Can Nat n s 10 : 252–254 (1882)

**82a** Recent discoveries in the Erian (Devonian) flora of the United States. Am J Sc (3) 24 : 338–345 (1882)

**82b** [On the glaciation of North America.] Can Nat n s 10 : 183–184 (1882)

**82c** Note on specimens of *Ptilophyton* and associated fossils collected ... in the Chemung shales of Ithaca, N. Y. (*abst*). Am As, Pr 30 : 204 (1882)

**82d** The successive Paleozoic floras of Canada. Can Nat n s 10 : 372–378 (1882) *Abst,* Am As, Pr 31 : 415–416 (1883)

**83** On some unsolved problems in geology. Am As, Pr 32 : 1–27 (1884) Science 2 : 190–201 (1883) Pop Sc Mo 23 : 827–837; 24 : 61-73 (1883) Nature 28 : 449–455 (1883)

**83a** On the Cretaceous and Tertiary floras of British Columbia and the Northwest Territory. R Soc Can, Pr Tr 1, iv : 15–34, il (1883)

**83b** On portions of the skeleton of a whale from gravel on the line of the Canada Pacific Railway, near Smith's Falls, Ont. Am J Sc (3) 25 : 200–202 (1883) Can Nat n s 10 : 385–387 (1883) McGill Univ, Peter Redpath Mus, Rp 2 : 7–9 (1883)

**83c** Preliminary notice of new fossils from the Lower Carboniferous limestones of Nova Scotia and Newfoundland. Can Nat n s 10 : 411–416 (1883) McGill Univ, Peter Redpath Mus, Rp 2 : 10–15 (1883)

**83d** Notice of graptolites of the Quebec group ... Can Nat n s 10 : 461–463 (1883) McGill Univ, Peter Redpath Mus, Rp 2 : 15–17 (1883)

**83e** Canadian Pleistocene. G Mag (2) 10 : 111–113 (1883)

**83f** The Quebec group. *In* Harrington, B. J., Life of Sir William Logan, Appendix A : 403–418 (1883)

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**83g** Impressions on Potsdam sandstone [Rainbow Falls, Lake Champlain]. Science 1 : 177 (1883)

**83h** On moraines. Science 2 : 321 (1883)

**84** Observations on the geology of the line of the Canadian Pacific Railway. G Soc London, Q J 40 : 376–388 (1884) *Abst,* G Mag (3) 1 : 283–284 (1884)

**84a** On the geological relations and mode of preservation of *Eozoon canadense* (*abst*). Brit As, Rp 53 : 494 (1884) Can Rec Sc 1 : 58–59 (1884) Can Rec N H 1 : 57–59 (1884)

**84b** On the more ancient land floras of the old and new worlds (*abst*). Brit As, Rp 54 : 738–739 (1885) G Mag (3) 1 : 469–470 (1884)

**84c** Spores and spore cases from the Erian formation (*abst*). Can Rec N H 1 : 13 (1884)

**84d** On rhizocarps in the Paleozoic period (*abst*). Am As, Pr 32 : 260–264, il (1884) Science 2 : 326–327 (1883) Can Rec N H 1 : 19–27, il (1884) Can Rec Sc 1 : 19–27, il (1884)

**85** On some relations of geological work in Canada and the Old World. R Soc Can, Pr Tr 2, iv : 1–5 (1885)

**85a** Canadian and Scottish geology. Edinb G Soc, Tr 5 : 112–122 (1885)

**85b** Ancient insects and scorpions. Can Rec Sc 1 : 207–208 (1885)

**85c** A modern type of plant in the Cretaceous [*Brasenia antiqua,* Belly River beds]. Science 5 : 514, il (1885)

**85d** (with **Bain,** F.) Notes on the geology and fossil flora of Prince Edward Island. Can Rec Sc 1 : 154–161, il (1885)

**86** Presidential address before the British Association for the Advancement of Science, September 1886 [geologic history of the Atlantic ocean]. Can Rec Sc 2 : 201–228, 265–285 (1886–7) Pop Sc Mo 30 : 41–51, 184–194 (1886) Sc Am Sup 22 : 9020–9023 (1886) Brit As, Rp 56 : 3–36 (1887)

**86a** On the Mesozoic floras of the Rocky Mountain region of Canada. R Soc Can, Pr Tr 3, iv : 1–22, il (1886) *Abst,* Can Rec Sc 1 : 141–143 (1885); Science 5 : 531–532 (1885); Am Nat 19 : 699–700 (1885); Nature 33 : 32–34 (1885)

**86b** Cretaceous floras of the Northwest. Can Rec Sc 2 : 1–9 (1886)

**86c** Note on boulder drift and sea margins at Little Metis, lower St. Lawrence. Can Rec Sc 2 : 36–38 (1886)

**86d** On rhizocarps in the Erian (Devonian) period in America. Chicago Ac Sc, B 1 : 105–1[illegible], il (1886)

**86e** On the fossil flora of the Laramie series of western Canada (*abst*). Am J Sc (3) 32 : 242-243 (1886) Am Nat 20 : 157–158 (1886)

**Dawson,** John William—Continued.

**86f** On the relations of the geology of the Arctic and Atlantic basins (*abst*). Brit As, Rp 56 : 638 (1887) G Mag (3) 3 : 504–505 (1886)

**86g** On Canadian examples of supposed fossil algae (*abst*). Brit As, Rp 56 : 651–653 (1887) G Mag (3) 3 : 503–504 (1886)

**86h** (with **Grant,** C. E.) Notes on Pleistocene fossils from Anticosti. Can Rec Sc 2 : 44–48 (1886)

**87** Presidential address; Some points in which American geological science is indebted to Canada. R Soc Can, Pr Tr 4, iv : 1–8 (1887)

**87a** On the fossil plants of the Laramie formation of Canada. R Soc Can, Pr Tr 4, iv : 19–34, il (1887) *Abst,* Am Nat 20 : 635–637 (1886)

**87b** Correlation of the geological structure of the maritime province of Canada with that of western Europe (*abst*). Can Rec Sc 2 : 404–406 (1887) Science 9 : 589-590 (1887)

**88** The geological history of plants. The International Scientific Series vol 61 : 290 pp, N Y 1888 Rv by L. F. Ward, Am Nat 22 : 335–337 (1888)

**88a** Cretaceous floras of the Northwest Territories of Canada. Am Nat 22 : 953-959 (1888)

**88b** Specimens of *Eozoon canadense* and their geological and other relations. McGill Univ, Peter Redpath Mus, Notes on specimens—Sept. 1888 : 107 pp, il *Extracts,* Can Rec Sc 3 : 201–226, il (1888)

**88c** Notes on new facts relating to *Eozoon canadense.* G Mag (3) 5 : 49–54, il (1888) *Abst,* Br As, Rp 57 : 702 (1888)

**88d** Note on fossil woods and other plant remains from the Cretaceous and Laramie formations of the western territories of Canada. R Soc Can, Pr Tr 5, iv : 31–37 (1888) *Abst,* Can Rec Sc 2 : 499–502 (1887); Nature 36 : 274–275 (1887)

**88e** The earliest plants. Pop Sc Mo 32 : 787–795, il (1888)

**88f** Preliminary note on new species of sponges from the Quebec group at Little Métis, Province of Quebec, Canada. Can Rec Sc 3 : 49–59 (1888) McGill Univ, Peter Redpath Mus, Notes on specimens—April 1888 : 49–50 (1888)

**88g** On sporocarps discovered by Prof. E. Orton in the Erian shale of Columbus, Ohio. Can Rec Sc 3 : 137–140 (1888)

**88h** On the Eozoic and Paleozoic rocks of the Atlantic coast of Canada in comparison with those of western Europe and of the interior of America. G Soc London, Q J 44 : 797–817 (1888) *Abst,* Can Rec Sc 3 : 182–183, 230–231 (1888)

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HAL MEADOW

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HAL MEADOW

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**94b** The economic products of the pre-Cambrian rocks of Minnesota (*abst*). Minn, Univ, Q B 2 : 48–49 (1894)

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**04f** Charlotte Co., N. B. Can G S, Sum Rp 1903 (An Rp 15): A 150–160 (1904)

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**08** Surveys in southern New Brunswick. Can G S, Sum Rp 1907: 74–76 (1908)

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**12b** Postglacial erosion and oxidation (discussion). G Soc Am, B 23 : 295 (1912)

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HAL MEADOW

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HAL MEADOW

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**82** Notes on the coal of Little Sewell Mountain, Greenbrier Co., W. Va. The Virginias 3 : 7–8, map (1882)

**82a** The artesian well at Fort Monroe, Va. The Virginias 3 : 18–19 (1882)

**82b** Notes on Virginia geology; the Brush Creek, Va., gold district. The Virginias 3 : 108–109 (1882)

**82c** Notes on the sulphuret deposits of Virginia. The Virginias 3 : 154–155 (1882)

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**98** Notes of the lectures on geology ... University of Virginia. Pt 1 : 173 pp; pt 2 : 153 pp; pt 3 : 174 pp (c 1898–9)

**99** Note on Lower Cretaceous plants from the Hay Creek coal field, Crook Co., Wyo. U S G S, An Rp 19 pt 2 : 645–702, il (1899)

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**01** (with **Osborn,** H. F.) Fore and hind limbs of Sauropoda from the Bone Cabin quarry [Wyo.]. Am Mus N H, B 14 : 199–208, il (1901)

**08** A revision of the American Eocene horses. Am Mus N H, B 24 : 221–264, il (1908) *Abst,* Science n s 27 : 256 (1908)

**09** Faunal horizons of the Washakie formation of southern Wyoming. Am Mus N H, B 26 : 13–23 (1909)

**10** Tertiary faunal horizons in the Wind River Basin, Wyo., with descriptions of new Eocene mammals. Am Mus N H, B 28 : 235–251, il (1910)

**11** A new specimen of the four-toed horse; earliest known ancestor of the modern horse, the small four-toed *Eohippus,* discovered in the badlands of Wyoming. Am Mus J 11 : 85–88, il (1911)

**11a** (with **Sinclair,** W. J.) Eocene and Oligocene of the Wind River and Bighorn basins [Wyo.]. Am Mus N H, B 30 : 83–117 (1911) *Abst,* G Soc Am, B 22 : 722–723 (1911)

**12** (with **Sinclair,** W. J.) Notes on the Tertiary deposits of the Bighorn Basin. Am Mus N H, B 31 : 57–67 (1912)

**14** On the names of lower Eocene faunal horizons of Wyoming and New Mexico. Am Mus N H, B 33 : 201–207 (1914)

**Granger,** Walter—Continued.

**14a** Lower Eocene faunae of northwestern Wyoming (*abst*). N Y Ac Sc, An 23 : 263 (1914)

**14b** (with **Sinclair,** W. J.) Paleocene deposits of the San Juan Basin, N. Mex. Am Mus N H, B 33 : 297–316, maps (1914)

**15** New evidence of the affinities of the Multituberculata (*abst*). G Soc Am, B 26 : 152 (1915)

**15a** (with **Matthew,** W. D.) A revision of the lower Eocene Wasatch and Wind River faunas. Am Mus N H, B 34 : 1–103, 311–328, 329–361, 429–483, il (1915)

**17** Notes on Paleocene and lower Eocene mammal horizons of northern New Mexico and southern Colorado. Am Mus N H, B 37 : 821–830, il (1917)

**17a** (and **Gregory,** W. K.) A revision of the Eocene primates of the genus *Northarctus*. Am Mus N H, B 37 : 841–859, il (1917)

**17b** (with **Matthew,** W. D.) The skeleton of *Diatryma*, a gigantic bird from the lower Eocene of Wyoming. Am Mus N H, B 37 : 307–326 (1917) *Abst,* G Soc Am, B 28 : 212 (1917)

**17c** (with **Matthew,** W. D.) A giant Eocene bird [*Diatryma Steini*, Bighorn Basin, Wyo.]. Am Mus J 17 : 417–418, il (1917)

**18** New tillodont skull from the Huerfano Basin, Colo. (*abst*). G Soc Am, B 29 : 147–148 (1918)

**18a** (with **Matthew,** W. D.) A revision of the lower Eocene Wasatch and Wind River faunas; Part V, Insectivora (continued), Glires, Edentata. Am Mus N H, B 38 : 565–657, il (1918)

**18b** (with **Matthew,** W. D.) Fossil mammals of the Tiffany beds (*abst*). G Soc Am, B 29 : 152 (1918)

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**90** Notes on *Beatricea* (*abst*). Hamilton As, J Pr pt 6 : 122–126 (1890)

**91** Notes on the Asteroidea, etc., living and fossil. Hamilton As, J Pr pt 7 : 128–131 (1891)

**92** Notes on fossil Silurian plants, Hamilton, Ont. Hamilton As, J Pr 8 : 29–35, 147–148 (1892)

**92a** Notes on the Niagara Falls rocks. Hamilton As, J Pr 8 : 135–139 (1892)

**92b** Geological notes on Marl Lake, Anticosti. Hamilton As, J Pr 8 : 140–146 (1892)

**92c** Fragments of Paleozoic sea floors from Hamilton, Ont., and Anticosti. Hamilton As, J Pr 8 : 149–154 (1892)

**93** Geological notes. Hamilton As, J Pr 9 : 97–135 (1893)

**94** Notes on local fossils in the glaciated chert Niagara beds. Hamilton As, J Pr 10 : 79–89 (1894)

**95** Opening address [notes on fossils, Hamilton, Ont.]. Hamilton As, J Pr 11 : 60–64 (1895)

**Grant,** Charles Coote—Continued.

**95a** Brief notes on the Devonian rocks, Ontario. Hamilton As, J Pr 11 : 65–70 (1895)

**95b** Geological notes in continuation. Hamilton As, J Pr 11 : 71–78 (1895)

**96** Geological notes. Hamilton As, J Pr 12 : 140–145 (1896)

**96a** Additional notes regarding our local graptolites. Hamilton As, J Pr 12 : 159–163 (1896)

**97** Notes on some recent additions to Ontario paleontology. Hamilton As, J Pr 13 : 20–26 (1897)

**97a** Local paleontological notes in continuation. Hamilton As, J Pr 13 : 27–33, 34–37 (1897)

**97b** The mineral of our local rocks. Hamilton As, J Pr 13 : 38–43 (1897)

**98** Geological notes. Hamilton As, J Pr 14 : 89–100 (1898)

**99** Geological notes. Hamilton As, J Pr 15 : 48–66 (1899)

**00** Opening address [geological notes]. Hamilton Sc As, J Pr 16 : 75–82 (1900)

**00a** Fossiliferous localities near Hamilton, Ont. Hamilton Sc As, J Pr 16 : 83–88 (1900)

**01** Opening address, geological section. Hamilton Sc As, J Pr 17 : 62–73, il (1901)

**01a** Notes on a few fossils [Hamilton, Ont.]. Hamilton Sc As, J Pr 17 : 74–77, il (1901)

**01b** Niagara Falls as an index of time. Hamilton Sc As, J Pr 17 : 78–83 (1901)

**01c** Geological notes, etc. Hamilton Sc As, J Pr 17 : 84–96 (1901)

**02** Opening address, geological section, for session 1901–1902. Hamilton Sc As, J Pr 18 : 33–42 (1902)

**02a** Coral reefs, modern and ancient. Hamilton Sc As, J Pr 18 : 43–45 (1902)

**02b** Geological notes. Hamilton Sc As, J Pr 19 : 111–127, il (1903)

**03** Geological notes. Hamilton Sc As, J Pr 18 : 48–52 (1902)

**03a** The origin of petroleum. Hamilton Sc As, J Pr 19 : 142–145 (1903)

**04** Notes on past collecting season. Hamilton Sc As, J Pr 20 : 29–46, il (1904)

**05** Notes on the late collecting season. Hamilton Sc As, J Pr 21 : 68–74, 80–86, il (1905)

**06** Notes on the past collecting season [Silurian fossils, Hamilton, Ont.]. Hamilton Sc As, J Pr 22 : 107–120 (1906)

**07** Notes on the late collecting season [Silurian fossils]. Hamilton Sc As, J Pr 23 : 130–144 (1907)

**08** Notes on the late collecting season. Hamilton As, J Pr 24 : 20 pp [not numbered], il (1908)

**10** A few hints on local fossil collecting here. Hamilton As, J Pr 25–26 : 99–106, il (1910)

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**86** (and **Dawson,** J. W.) Notes on Pleistocene fossils from Anticosti. Can Rec Sc 2 : 44–48 (1886)

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**42** On the structure and history of the mastodontoid animals of North America (*abst*). G Soc London, Pr 3 : 770–771 (1842)

**Grant,** James A.

**64** The geology of the Ottawa Valley. Can Nat n s 1 : 419–426 (1864)

**80** Cystidean life. Ottawa Field Nat Club, Tr no 1 : 26–31, il (1880)

**81** Description of a new species of *Porocrinus* from the Trenton limestone. Ottawa Field Nat Club, Tr no 2 : 42–44, il (1881)

**83** On the inferior maxilla of *Phoca groenlandica* from Green's Creek, Gloucester, Russell Co., Ont. (*abst*). R Soc Can, Pr Tr 1, iv : 286 (1883)

**Grant,** Ulysses Sherman.

**89** Report of geological observations made in northeastern Minnesota during the summer of 1888. Minn G S, An Rp 17 : 149–215 (1889)

**90** Account of a deserted gorge of the Mississippi near Minnehaha Falls. Am G 6 : 1–6 (1890)

**92** The stratigraphic position of the Ogishke conglomerate of northeastern Minnesota. Am G 10 : 4–10 (1892) *Abst,* Minn, Univ, Q B 1 : 60 (1892)

**93** Field observations on certain granitic areas in northeastern Minnesota. Minn G S, An Rp 20 : 35–110 (1893) *Abst,* Minn, Univ, Q B 1 : 91–92 (1893)

**93a** The geology of Kekequabic Lake in northeastern Minnesota with special reference to an augite soda granite. Minn G S, An Rp 21 : 5–58, map (1893) *Abst,* Minn, Univ, Q B 2 : 91 (1894)

**93b** Catalogue of rock specimens collected in northeastern Minnesota in 1892. Minn G S, An Rp 21 : 59–67 (1893)

**93c** Note on an augite-soda granite from Minnesota. Am G 11 : 383–388 (1893) *Abst,* Minn, Univ, Q B 2 : 23 (1894)

**93d** Note on quartz-bearing gabbro in Maryland. Johns Hopkins Univ Circ 12 : 47–49 (1893) *Abst,* Minn, Univ, Q B 2 : 22–23 (1894)

**94** Preliminary report of field work during 1893 in northeastern Minnesota. Minn G S, An Rp 22 : 67–86 (1894)

**94a** Note on the Keweenawan rocks of Grand Portage Island, north coast of Lake Superior. Am G 13 : 437–439 (1894) *Abst,* Minn, Univ, Q B 2 : 92 (1894)

**94b** Volcanic rocks in the Keewatin of Minnesota. Science 23 : 17 (1894) *Abst,* Minn, Univ, Q B 2 : 55 (1894)

**95** The name of the copper-bearing rocks of Lake Superior. Am G 15 : 192–194 (1895)

**Grant,** Ulysses Sherman—Continued.

**95a** Reconnaissance map of the United States [by W J McGee]. Am G 16 : 113–114 (1895)

**95b** List of rock samples collected in 1894. Minn G S, An Rp 23 : 220–223 (1895)

**95c** (with **Winchell,** H. V.) Preliminary report on the Rainy Lake gold region. Minn G S, An Rp 23 : 36–105 (1895) *Abst,* Zs prak G 1897 : 92–94

**96** The stratigraphical position of the Ogishke Muncie conglomerate of northeastern Minnesota (*abst*). Minn Ac N Sc, B 4 : 13 (1896)

**96a** (with **Winchell,** N. H.) Volcanic ash from the north shore of Lake Superior. Am G 18 : 211–213 (1896)

**97** Lakes with two outlets in northeastern Minnesota. Am G 19 : 407–411 (1897)

**98** Sketch of the geology of the eastern end of the Mesabi iron range in Minnesota. Minn, Univ, Engineers' Year Book 6 : 49–62, map (1898)

**99** The geology of Itasca Co. ; ... Cook Co. ; ... Pokegama Lake plate ; ... Grand Rapids plate ; ... Swan Lake plate ; ... Gabbro Lake plate ; ... Snowbank Lake plate ; ... Fraser Lake plate ; ... Akeley Lake plate ; ... Gunflint Lake plate ; ... Rove Lake plate ; ... Mountain Lake plate. Minn G S, Final Rp 4 : 166–192, 313–357, 399–501, maps (1899)

**99a** Record of geological field work in northeastern Minnesota 1892 to 1898. Minn G S, An Rp 24 : 85–144 (1899)

**99b** List of rock samples collected in northeastern Minnesota in 1898. Minn G S, An Rp 24 : 145–147 (1899)

**99c** A possibly driftless area in northeastern Minnesota. Am G 24 : 377–381 (1899)

**99d** [A driftless area in northeastern Minnesota (*abst*).] Science n s 9 : 623–624 (1899)

**99e** (with **Winchell,** H. V.) Preliminary report on the Rainy Lake gold region. Minn G S, Final Rp 4 : 192–211, map (1899)

**00** Preliminary report on the copper-bearing rocks of Douglas Co., Wis. Wis G S, B 6 (ec s 3) : 55 pp, maps, Madison, Wis., 1900. 2d ed, 83 pp, maps, Madison, Wis., 1901

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**00b** (with **Winchell,** N. H.) The petrographic geology of the crystalline rocks of Minnesota. Minn G S, Final Rp 5 : 75–936 (1900)

**01** Junction of Lake Superior sandstone and Keweenawan traps in Wisconsin (*abst*). G Soc Am, B 13 : 6–9 (1901)

**02** Lake Superior iron-ore deposits. Am G 29 : 47–51 (1902)

**Grant,** Ulysses Sherman—Continued.

**03** Preliminary report on the lead and zinc deposits of southwestern Wisconsin. Wis G S, B 9 (ec s 5) : 103 pp, map, Madison, Wis., 1903

**03a** Geological excursion in the Pittsburgh region. G Soc Am, B 14 : 3–4 (1903)

**04** Investigations on the Lake Superior iron-ore deposits. M Mag 10 : 175–183 (1904)

**04a** Field work in the Wisconsin lead and zinc district (*abst*). G Soc Am, B 15 : 552–553 (1904) Science n s 19 : 526 (1904)

**04b** (and **Bain,** H. F.) A preglacial peneplain in the Driftless Area (*abst*). Science n s 19 : 528 (1904) Sc Am Sup 57 : 23446 (1904)

**05** Zinc and lead deposits of southwestern Wisconsin. U S G S, B 260 : 304–310 (1905)

**05a** Water resources of the Mineral Point quadrangle, Wis. U S G S, W–S P 145 : 67–73 (1905)

**05b** Structural relations of the Wisconsin zinc and lead deposits. Ec G 1 : 233–242 (1905)

**06** Report on the lead and zinc deposits of Wisconsin, with an atlas of detailed maps. Wis G S, B 14 : 100 pp, maps (1906)

**06a** Zinc and lead deposits in Wisconsin. M Mag 13 : 453–460 (1906)

**06b** Structural relations of the Wisconsin zinc and lead deposits. Ec G 1 : 233–242 (1906)

**06c** Copper and other mineral resources of Prince William Sound. U S G S, B 284 : 78–87 (1906)

**06d** The eastern limit of glacial Lake Agassiz (*abst*). Minn Ac Sc, B 4 : 208–209 (1906)

**07** (and **Burchard,** E. F.) Description of the Lancaster and Mineral Point quadrangles [Wisconsin-Iowa-Illinois]. U S G S, G Atlas Lancaster-Mineral Point fol (no 145) : 14 pp, maps (1907)

**08** (and **Perdue,** M. J.) Millbrig sheet of the lead and zinc district of northern Illinois. Ill G S, B 8 : 335–343, map (1908)

**09** Gold on Prince William Sound, Alaska. U S G S, B 379 : 97 (1909)

**09a** (and **Higgins,** D. F.) Copper mining and prospecting on Prince William Sound, Alaska. U S G S, B 379 : 87–96, map (1909)

**09b** (and **Higgins,** D. F.) Notes on the geology and mineral prospects in the vicinity of Seward, Kenai Peninsula, Alaska. U S G S, B 379 : 98–107 (1909)

**10** Mining and prospecting on Prince William Sound in 1909. U S G S, B 442 : 164–165 (1910)

**Grant,** Ulysses Sherman—Continued.

**10a** (and **Higgins,** D. F.) Preliminary report on the mineral resources of the southern part of Kenai Peninsula, Alaska. U S G S, B 442 : 166–178, maps (1910)

**10b** (and **Higgins,** D. F.) Reconnaissance of the geology and mineral resources of Prince William Sound, Alaska. U S G S, B 443 : 89 pp, maps (1910) *Abst,* Wash Ac Sc, J 2 : 100 (1912)

**10c** Copper deposits of Prince William Sound, Alaska. M Sc Press 100 : 63–64 (1910)

**10d** (and **Higgins,** D. F.) Glaciers of Prince William Sound and the southern part of the Kenai Peninsula, Alaska; I, Glaciers of the northern part of Prince William Sound; II, Glaciers of Port Wells, Prince William Sound; III, Glaciers of the west coast of Prince William Sound; IV, Glaciers of the southern coast of the Kenai Peninsula. Am Geog Soc, B 42 : 721–738 (1910); 43 : 321–338, 401–417, 721–737 (1911) *Abst,* G Soc Am, B 21 : 757–758 (1910)

**13** (and **Higgins,** D. F.) Coastal glaciers of Prince William Sound and Kenai Peninsula, Alaska. U S G S, B 526 : 75 pp (1913) *Abst,* by A. H. Brooks, Wash Ac Sc, J 4 : 193 (1914)

**14** (and **Cady,** G. H.) Preliminary report on the general and economic geology of the Baker district of eastern Oregon. Oreg Bur Mines, Min Res Oreg 1 no 6 : 129–161 (1914)

**15** (with **Martin,** G. C., and **Johnson,** B. L.) Geology and mineral resources of Kenai Peninsula, Alaska. U S G S, B 587 : 243 pp, maps (1915)

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**51** Seven lenticular concretions from the black shale of the Hudson River group ... about four miles north of Stuyvesant Landing, Columbia Co. [N. Y.]. N Y St Cab, An Rp 4 : 77–79 (1851)

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**09** (with **Mathews,** E. B.) Report on the limestones of Maryland, with special reference to their use in the manufacture of lime and cement. Md G S 8 : 225–477 (1909)

**09a** (with **Mathews,** E. B.) The character and structural relations of the limestones of the Piedmont in Maryland and Virginia (*abst*). Science n s 29 : 634–635 (1909)

**10** (with **Mathews,** E. B.) Character and structural relations of the limestones of the Piedmont in Maryland and Virginia. *Abst,* G Soc Am, B 20 : 678 (1910)

**12** An unusual occurrence of the mineral evansite. Va, Univ, Ph Soc, B sc s 1 : 223–230 (1912)

**14** The limestones of Maryland, east of the Blue Ridge (*abst*). Science n s 39 : 399 (1914)

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**14a** (and **Cline,** J. H.) The slate deposits of the Southern States (*abst*). Science n s 39 : 399–400 (1914)

**14b** (with **Watson,** T. L.) The Piedmont limestones of the southeast Atlantic States (*abst*). Science n s 39 : 399 (1914)

**14c** (with **Watson,** T. L.) The cement materials and industry of the Southern States (*abst*). Science n s 39 : 400 (1914)

**15** (with **Watson,** T. L.) Barite of the Appalachian States. Am I M Eng, B 98 : 345–390, maps (1915) ; Tr 51 : 514–559, maps (1916)

**Gratacap,** Louis Pope (1850–1917).

**78** The Ice Age. Pop Sc Mo 12 : 319–327 ; 14 : 90–102 (1878)

**81** The primeval American continent. Pop Sc Mo 19 : 229–237 (1881)

**84** Opinions upon clay stones and concretions. Am Nat 18 : 882–892 (1884)

**86** Fish remains and tracks in the Triassic rocks at Weehawken, N. J. Am Nat 20 : 243–246 (1886)

**87** The eozoonal rocks of Manhattan Island. Am J Sc (3) 33 : 374–378, il (1887)

**87a** [Drift fossils of Staten Island, N. Y.] N Sc As Staten Island, Pr 1 : 46, 51–52 (1887)

**87b** [Serpentine rock of Staten Island, N. Y.] N Sc As Staten Island, Pr 1 : 55 (1887)

**89** [Fossils from a drift boulder, Staten Island, N. Y.] Nat Sc As Staten Island, Pr 2 : 7 (1889) Am Nat 23 : 549–550 (1889)

**90** [On ripple-marked Potsdam sandstone from drift at Tottenville, Staten Island, N. Y.] Science 16 : 14 (1890)

**91** [Trap rock from Lambert's Lane, Staten Island, N. Y.] N Sc As Staten Island, Pr 3 : 5–6 (1891)

**91a** [Fossils in a drift boulder of Lower Helderberg limestone, Staten Island, N. Y.] N Sc As Staten Island, Pr 3 : 6 (1891)

**92** [On fossils found in drift boulders on Staten Island, N. Y.] N Sc As Staten Island, Pr 3 : 9–10 (1892)

**93** Additional determinations of Schoharie fossils from the drift [on Staten Island, N. Y.]. N Sc As Staten Island, Pr 4 : 7 (1893)

**94** [Fossils in drift boulders on Staten Island, N. Y.] N Sc As Staten Island, Pr 4 : 11–12, 25 (1894)

**94a** Additions to the drift fossils of Staten Island [N. Y.]. N Sc As Staten Island, Pr 4 : 16–17 (1894)

**95** The possible revival of Virginia City, Nev. Sc Am Sup 40 : 16329–16330 (1895)

**96** Fossils and fossilization. Am Nat 30 : 902–912, 993–1003 (1896) ; 31 : 16–33, 191–199, 285–293 (1897)

**98** Relation of James Hall to American geology. Am Nat 32 : 891–902, port (1898)

**Gratacap,** Louis Pope—Continued.

**99** A plea for the popular exposition of lithology for museum purposes. Am G 23 : 281–287 (1899)

**99a** The Comstock lode [Nev.]. Sc Am Sup 48 : 19925–19926 (1899)

**99b** The significance of the accumulation and distribution of boulders on the north shore of the island [Staten Island, N. Y.]. N Sc As Staten Island, Pr 7 : 13–14 (1899)

**99c** Notes on the limonite beds on Ocean Terrace [Staten Island, N. Y.]. N Sc As Staten Island, Pr 7 : 28–29 (1899)

**00** Note on an interesting specimen of calcite from Joplin, Mo. Am Mus N H, B 13 : 95–97 (1900)

**00a** The Hall geological collection. Am Mus J 1 : 57–60, il (1900)

**00b** Are the Kreischerville clays all Cretaceous in age? [Staten Island, N. Y.] N Sc As Staten Island Pr 7 : 38–39 (1900)

**00c** The asbestos mines at Thetford, Canada. Sc Am 82 : 213–214 (1900)

**01** Geology of the City of New York... 82 pp [N Y 1901] 2d ed, 119 pp, map, N Y 1904 3d ed, 232 pp, map, N Y 1909

**01a** The Clove Valley Pleiostocene lake basin [Staten Island, N. Y.]. N Sc As Staten Island, Pr 8 : 3–4 (1901)

**01b** Paleontological speculations. Am G 27 : 75–100 ; 28 : 214–234 (1901) ; 29 : 290–301 (1902)

**01c** The Ward-Coonley collection of meteorites. Sc Am Sup 52 : 21382–21383 (1901)

**02** The collection of minerals [American Museum of Natural History]. Am Mus J 2 no 2 sup (Guide Leaflet no 4) : 21 pp (1902)

**02a** The great Jurassic dinosaur [*Brontosaurus*]. Sc Am 86 : 5 (1902)

**03** Vade mecum guide. A popular guide to mineral collections ; with a chapter on the development of mineralogy. 178 pp, N Y n d [1903?]

**05** Newfoundland, its geology and mineral resources. M World 23 : 525–526 (1905)

**06** The largest American collection of meteorites. Pop Sc Mo 69 : 21–28 (1906)

**08** The state museum of minerals at Atlanta, Ga. Mineral Collector 15 : 129–132 (1908)

**09** Growth of the Bement collection of minerals. M World 30 : 673–675 (1909)

**10** Robert Parr Whitfield. Science n s 31 : 774–775 (1910) Am J Sc (4) 29 : 565–566 (1910)

**11** Biographical memoir of Robert Parr Whitfield. N Y Ac Sc, An 20 : 385–398, port (1911)

**12** A popular guide to minerals, with chapters on the Bement collection of minerals in the American Museum of Natural History, and the development of mineralogy : 330 pp, map, N Y 1912

**Gratacap,** Louis Pope—Continued.

**12a** An unusual specimen of *Mytilus middendorfii* Grewingk, from Alaska. Am Mus N H, B 31 : 69–70, il (1912)

**14** Tertiary fossils on Long Island. Nautilus 28 : 85–86 (1914)

**17** Gem mining in the United States; tourmaline and turquoise. Am Mus J 17 : 65–69 (1917)

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**03** Up and down the Mississaga. Ont Bur Mines, Rp 1903 : 157–172 (1903)

**03a** On the petrographical relations of the Laurentian limestones and the granite in the township of Glamorgan, Haliburton Co., Ont. Can Rec Sc 9 : 1–38 (1903) Rv by N. H. Winchell, Am G 32 : 385–392 (1903)

**05** The Carolina tin belt. U S G S, B 260 : 188–195, map (1905)

**05a** (and **Schaller,** W. T.) Purpurite, a new mineral. Am J Sc (4) 20 : 146–151 (1905) Zs Kryst 41 : 433–438 (1905)

**05b** Consanguinity in the eruptive rocks of Cripple Creek [Colo.] (*abst*). Science n s 21 : 391 (1905)

**05c** (with **Hess,** F. L.) The occurrence and distribution of tin. U S G S, B 260 : 161–187 (1905)

**06** Description and petrology of the metamorphic and igneous rocks [Cripple Creek district]. U S G S, P P 54 : 41–113 (1906)

**06a** Reconnaissance of some gold and tin deposits of the southern Appalachians. U S G S, B 293 : 9–118 (1906)

**06b** (with **Gordon,** C. H.) Lower Paleozoic formations in New Mexico. Am J Sc (4) 21 : 390–395 (1906) Science n s 23 : 590–591 (1906)

**06c** (with **Lindgren,** W.) A reconnaissance of the mineral deposits of New Mexico. U S G S, B 285 : 74–86 (1906)

**07** Copper. U S G S, Min Res 1906 : 373–438; 1907 pt 1 : 571–644 (1907–8)

**08** (and **Siebenthal,** C. E.) Silver, copper, lead, and zinc in Central States. U S G S, Min Res 1907 pt 1 : 483–549 (1908)

**10** The occurrence of copper in Shasta Co., Cal. U S G S, B 430 : 71–111 (1910)

**10a** (with **Lindgren,** W.) The ore deposits of New Mexico. U S G S, P P 68 : 361 pp (1910)

**13** Investigation of copper enrichment. Eng M J 96 : 885–887 (1913)

**13a** Ore deposits at Butte, Mont. (discussion). Am I M Eng, B 83 : 2735–2736 (1913)

**13b** (and **Murdoch,** Joseph) The sulphide ores of copper; some results of microscopic study (with discussion by J. F. Kemp, H. V. Winchell, and L. C. Graton). Am I M Eng, B 77 : 741–811 (1913); Tr 45 : 26–93, 529–530 (1914)

**13c** Notes on rocks from the Coppermine River region, Can. Can M Inst, Tr 16 : 102–114 (1913)

**Graton,** Louis Caryl—Continued.

**15** (and others) To what extent is chalcocite a primary and to what extent a secondary mineral in ore deposits (discussion). Am I M Eng, Tr 48 : 194–200 (1915)

**17** (and **McLaughlin,** D. H.) Ore deposition and enrichment at Engels, Cal. Ec G 12 : 1–38 (1917)

**18** (and **McLaughlin,** D. H.) Further remarks on the ores of Engels, Cal. Ec G 13 : 81–99 (1918)

**18a** The relation of sphalerite to other sulphides in ores (discussion). Am I M Eng, B 136 : 844–845 (1918)

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**01** The oyster reefs of North Carolina; a geological and economic study. Johns Hopkins Univ Circ 20 : 50–53 (1901)

**Gray,** A. B.

**45** [Mineral lands of Lake Superior region.] U S, 28th Cong spec sess, S Ex Doc 175 : 14–22 (1845)

**46** Report on mineral lands on Lake Superior. U S, 29th Cong 1st sess, H Doc 211 : 23 pp, map (1846)

**Gray,** Alexander.

**10** The alluvial gold fields of Quebec. M World 32 : 801–802 (1910)

**10a** Geology of the Porcupine gold fields defined [Ont.]. M World 33 : 266–270 (1910)

**Gray,** Alonzo.

**53** (and **Adams,** C. B.) Elements of geology. 354 pp, N Y 1853

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**34** (with **Crawe,** J. B.) ...mineralogy of a portion of Jefferson and St. Lawrence cos. (N. Y.). Am J Sc 25 : 346–350 (1834)

**Gray,** Francis William.

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HAL MEADOW

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**76b** On the...paleontological work of the Second Geological Survey of Pennsylvania, for the year 1875. Am Ph Soc, Pr 16 : 55–60 (1876)

**77** Contribution to paleontology from the Museum of the Second Geological Survey of Pennsylvania. Am Ph Soc, Pr 16 : 621–622 (1877)

**78** Catalog of the geological museum, Part I; Collections of rock specimens. Pa G S, 2d, O : 217 pp (1878)

**78a** Fossils collected in Westmoreland Co., Pa. Am Ph Soc, Pr 17 : 270 (1878)

**79** Laurentian magnetic iron ore deposits in northern New York. N Y St Mus, An Rp 32 : 133–140 (1879) [See also 85a below]

**80** Catalog of the geological museum, Part II; Collections of rock specimens; paleontological specimens. Pa G S, 2d, OO : 272 pp (1880)

**80a** The relations of the crystalline rocks of eastern Pennsylvania to the Silurian limestones and the Hudson River age of the hydromica schists. Am Ph Soc, Pr 18 : 435–443, map (1880)

**81** The geology of Philadelphia Co., and of the southern parts of Montgomery and Bucks. Pa G S, 2d, C6 : xx, 145 pp, map (1881)

**83** Geology of the Chester Valley of Pennsylvania. Am Nat 17 : 646–648 (1883)

**85** Field notes in Delaware Co. Pa G S, 2d, C5 : xvi, 128 pp, map (1885)

**85a** Laurentian magnetic iron ore deposits of northern New York, accompanied by a geological map of Essex Co. N Y St G, An Rp 4 : 23–34, map (1885) [See also 79 above]

**86** (with **Beecher,** C. E.) Field notes on the geology of the Mohawk Valley. N Y St G, An Rp 5 : 8–10, map (1886) ; 14 : 54–56, map (1895)

**86a** (with **Beecher,** C. E., and **Hall,** J. W.) Note on the Oneonta sandstone in the vicinity of Oxford, Chenango Co., N. Y. N Y St G, An Rp 5 : 11 (1886)

**91** Notes on the manganese ore deposit of Crimora, Va. Eng M J 52 : 94 (1891) Am I M Eng, Tr 20 : 46–49 (1892)

**03** Notes on a geological section from Iguala to San Miguel Totolapa, State of Guerrero, Mexico. Soc Cient Ant Alz, Mem 13 : 327–335 (1903)

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**03** (with **Todd,** J. E.) Description of the Alexandria quadrangle [S. Dak.]. U S G S, G Atlas Alexandria fol (no 100) : 6 pp, maps (1903)

**04** A brief history of glacial Lake Agassiz. N Dak, Agr Coll S, Bien Rp 2 : 27–30 (1904)

**04a** (with **Todd,** J. E.) Description of the De Smet quadrangle [S. Dak.]. U S G S, G Atlas De Smet fol (no 114) : 6 pp, maps (1904)

**04b** (with **Todd,** J. E.) Geology and water resources of part of the lower James River valley, S. Dak. U S G S, W-S P 90 : 47 pp, maps (1904)

**05** (and **Willard,** D. E.) Description of the Casselton and Fargo quadrangles [N. Dak.-Minn.]. U S G S, G Atlas Casselton-Fargo fol (no 117) ; 7 pp maps (1905)

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**79** Field report. Minn G S, An Rp 7 : 26–29 (1879)

**80** Report [on the Lake Superior region]. Minn G S, An Rp 8 : 126–138 (1880)

**80a** (with **Peckham,** S. F.) On lintonite and other forms of thomsonite, a preliminary notice of zeolites of the vicinity of Grand Marais, Cook Co., Minn. Am J Sc (3) 19 : 122–130 (1880)

**84** Physiographic conditions of Minnesota agriculture; a study in physical geography. A lecture delivered before the Minnesota State Horticultural Society... January 17, 1884. 15 pp [1884]

**89** A brief history of copper mining in Minnesota. Minn Ac N Sc, B 3 : 105–111 (1889) *Abst,* Minn, Univ, Q B 1 : 91 (1893)

**89a** The lithological characters of the Trenton limestone of Minneapolis and St. Paul, with a note on borings of the West Hotel artesian well. Minn Ac N Sc, B 3 : 111–124 (1889) *Abst,* Minn, Univ, Q B 1 : 91 (1893)

**89b** The geological conditions which control artesian well boring in southeastern Minnesota. Minn Ac N Sc, B 3 : 128–143 (1889) *Abst,* Minn, Univ, Q B 1 : 90–91 (1893)

**89c** The distribution of the granites of the Northwestern States and their general lithologic characters (*abst*). Am As, Pr 37 : 189–190 (1889)

**91** [Notes on the Black Hills of South Dakota (*abst*)]. Minn Ac N Sc, B 3 : 185–186 (1891)

**91a** The deep well at Minneopa, Minn. Minn Ac N Sc, B 3 : 248–250 (1891) *Abst,* Minn, Univ, Q B 1 : 113 (1893)

**91b** Notes of a geological excursion into central Wisconsin. Minn Ac N Sc, B 3 : 251–268 (1891) *Abst,* Minn, Univ, Q B 1 : 114 (1893)

**Hall,** Christopher Webber—Continued.

**91c** A notable dike in the Minnesota River valley (*abst*). Am As, Pr 39 : 263–264 (1891)

**91d** Some of the conditions controlling successful artesian well boring in the Northwestern States' (*abst*). Am As, Pr 39 : 264–265 (1891)

**92** (and **Sardeson, F. W.**) Paleozoic formations of southeastern Minnesota (with discussion, pp 464–5). G Soc Am, B 3 : 331–368, map (1892) *Abst,* Am G 9 : 216 (1892) ; Minn, Univ, Q B 1 : 30 (1892)

**93** The formation and deformation of Minnesota lakes. Science 21 : 314–315 (1893) Sc Am Sup 36 : 14625–14626 (1893) *Abst,* Minn, Univ, Q B 2 : 20–21 (1894)

**95** (and **Sardeson,** F. W.) The magnesian series of the Northwestern States. G Soc Am, B 6 : 167–198, map (1895) *Abst,* Am J Sc (3) 46 : 303–304 (1893) ; Minn, Univ, Q B 2 : 19–20 (1894)

**95a** Mineral alterations in the granitic rocks of the Northwestern States (*abst*). Am As, Pr 43 : 236 (1895)

**97** Syllabus of general geology for students... 127 pp, Minneapolis 1897

**98** Exploration for gold in the Central States. L Sup M Inst, Pr 49–60 (1898)

**99** The gneisses, gabbro schists, and associated rocks of southwestern Minnesota. U S G S, B 157 : 160 pp, maps (1899)

**99a** (and **Sardeson,** F. W.) Eolian deposits of eastern Minnesota. G Soc Am, B 10 : 349–360 (1899) *Abst,* Am G 23 : 103 (1899) ; Science n s 9 : 143 (1899)

**99b** Extent and distribution of the Archean in Minnesota (*abst*). Science n s 9 : 412–413 (1899)

**99c** Distribution of the Keewatin in Minnesota. Science n s 10 : 107–110 (1899)

**00** The Chengwatona series of the Keweenawan (*abst*). Am As, Pr 49 : 191 (1900) Science n s 12 : 994 (1900)

**01** Keweenawan area of eastern Minnesota. G Soc Am, B 12 : 313–342, map (1901)

**01a** Keewatin area of eastern and central Minnesota. G Soc Am, B 12 : 343–376, map (1901)

**01b** The geology of Minnesota. Int M Cong, 4th, Pr : 165–171 (1901)

**01c** Sources of the constituents of Minnesota soils. Minn Ac N Sc, B 3 : 388–406 (1901)

**02** Minnesota—a sketch. J Geog 1 : 241–249 (1902)

**03** The geography and geology of Minnesota ; Volume I, Geography of Minnesota. 299 pp, Minneapolis 1903

**03a** The geology of Minnesota. Mines and Minerals 23 : 532–534 (1903)

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**04** [Notes on water resources of] Minnesota. U S G S, W-S P 102 : 441–488 (1904)

**05** [Underground waters of] Minnesota. U S G S, W-S P 114 : 226–232 (1905)

**05a** The structure, lithology, and genesis of the magnesian series of the Northwestern States (*abst*). Minn Ac N Sc, B 4 : 119–123 (1905)

**06** Some geological features of the Minnesota Seaside Station [Vancouver Island]. Postelsia, Yb Minn Seaside Station [2] : 305–347 St. Paul, Minn., 1906

**08** The red sandstone series of southeastern Minnesota (*abst*). Science n s 27 : 722 (1908)

**11** The material conditions of a municipal water supply [underground waters in Minneapolis and St. Paul, Minn.] (*abst*). Science n s 33 : 468–469 (1911)

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**16** (and **Ambrose,** A. W.) Descriptions of new species from the Cretaceous and Tertiary of the Tesla, Pleasanton, San Jose, and Mt. Hamilton quadrangles, Cal. Nautilus 30 : 68–71, 77–82 (1916)

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**93** Ancient gravels, Siskiyou Co. [Cal.]. M Sc Press 66 : 85 (1893)

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**21** Notice of iron mines and manufactures in Vermont and of some localities of earthy minerals. Am J Sc 4 : 23–25 (1821)

**21a** Notice of ores of iron and manganese, and of yellow ochre in Vermont. Am J Sc 3 : 57–58 (1821)

**23** ... curious water fall and of excavations in the rocks [Vermont]. Am J Sc 6 : 252–254 (1823)

**24** Catalog of minerals found in the State of Vermont and in the adjacent States... 44 pp, Hartford 1824

**36** A synopsis of a course of lectures on mineralogy ; delivered at the Medical College, Washington, in the winter of 1835–6. 24 pp, Washington 1836

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**37** Ores of iron [of the second geological district of New York]. N Y G S, An Rp 1 : 127–149 (1837)

**37a** Descriptions of two species of trilobites, belonging to the genus *Paradoxides.* Am J Sc 33 : 139–142, il (1837)

**38** Second annual report of the fourth geological district of New York. N Y G S, An Rp 2 : 287–374 (1838)

**39** Third annual report of the fourth geological district of the State of New York. N Y G S, An Rp 3 : 287–339 (1839)

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**40** Fourth annual report of the survey of the fourth geological district [of New York]. N Y G S, An Rp 4 : 389–456 (1840)

**41** Fifth annual report of the fourth geological district [of New York]. N Y G S, An Rp 5 : 149–179 (1841)

**42** Niagara Falls ; their physical changes and the geology and topography of the surrounding country. Boston J N H 4 : 106–134 (1842)

**42a** ... geology of the Western States. Am J Sc 42 : 51–62 (1842)

**43** Geology of New York. Part IV, comprising the survey of the fourth geological district. 683 pp, il, map, Albany 1843

**43a** Communication from Mr. James Hall, one of the State geologists [on the condition of the geological survey]. N Y Legislature, Documents of the Senate, 66th sess, vol 2 no 59 : 9 pp (1843)

**43b** Geological map of the middle and western States [Hudson River to Mississippi River]. N Y [1843]

**43c** Notes explanatory of a section from Cleveland, Ohio, to the Mississippi River in a southwest direction ; with remarks upon the identity of the western formations with those of New York. As Am G, Rp : 267–293 (1843)

**43d** Remarks upon casts of mud furrows, wave lines, and other markings upon rocks of the New York system. As Am G, Rp : 422–432 (1843)

**43e** On wave lines and casts of mud furrows (*abst*). Am J Sc 45 : 148–149 (1843)

**43f** On the geographical distribution of fossils in the older rocks of the United States (with discussion). Am J Sc 45 : 157–160, 162–163 (1843)

**43g** [Section on the shore of Lake Erie (*abst*)]. Am J Sc 45 : 327–328 (1843)

**43h** Sections at Portage, New York (*abst*). Am J Sc 45 : 329–330 (1843)

**43i** [Galciated cherty limestone from near Niagara, N. Y. (*abst* with discussion)]. Am J Sc 45 : 332 (1843)

**43j** (and others) [Discussion on drift phenomena.] Am J Sc 45 : 332–333 (1843)

**43k** [Geology of the region of Niagara Falls (*abst*).] Boston Soc N H, Pr 1 : 52 (1843)

**43l** (with **Emmons,** E.) Communication from Messrs. Emmons and Hall, State geologists [on the geological survey]. N Y Legislature, Documents of the Senate, 66th sess, vol 2 no 60 : 9 pp (1843)

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**44a** The geological survey of New York. N Y St Agr Soc, Tr 3 : 241–277, il (1844)

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**44b** Observations on Brachiopoda and Orthocerata (*abst*). Am J Sc 47 : 109 (1844)

**44c** On the geographical distribution of fossils in the Paleozoic strata of the United States (*abst*). Am J Sc 47 : 117–118 (1844)

**45** Nature of the geological formations occupying the portion of Oregon and North California included in a geographical survey under the direction of Captain Frémont. *In* Frémont, J. C., A report of the exploring expedition to Oregon and North California in the years 1843–44 ; U S, 28th Cong 2d sess, S Ex Doc 174 : 295–303 (1845) ; H Ex Doc 166 : 295–303 (1845)

**45a** Descriptions of organic remains collected by Captain J. C. Frémont, in the geographical survey of Oregon and North Carolina. *In* Frémont, J. C. A report of the exploring expedition to Oregon and north California in the years 1843–44 ; U S, 28th Cong 2d sess, S Ex Doc 174 : 304–310, il (1845) ; H Ex Doc 116 : 304–310, il (1845)

**45b** Nature of the strata and geographical distribution of the organic remains in the older formations of the United States. Boston J N H 5 : 1–20 (1845)

**45c** Description of some microscopic shells from the decomposing marl slate of Cincinnati. Am J Sc 48 : 292–295 (1845)

**45d** Fossil vegetables and shells from Oregon (*abst*). As Am G, Pr 6 : 66 (1845)

**46** Notice of the geological position of the cranium of the *Castoroides ohioensis.* Boston J N H 5 : 385–391 (1846)

**46a** [On a deposit at Clyde, N. Y., containing a cranium of *Castoroides ohioensis.*] Boston Soc N H, Pr 2 : 167–168 (1846)

**47** Descriptions of the organic remains of the lower division of the New York system. Pal N Y 1 : 338 pp, il (1847)

**47a** ...on certain fossils in the red sand-rock of Highgate [Vt.]. *In* Adams, C. B., Third annual report on the geology of the State of Vermont : 31 (1847)

**48** Catalogue of specimens in the geological department of the geological survey [of New York]. N Y St Cab, An Rp 1 : 39 pp (1848)

**48a** Catalogue of specimens in the paleontological department of the geological survey [of New York]. N Y St Cab, An Rp 1 : 15 pp (1848)

**48b** Upon some of the results of the paleontological investigations in the State of New York. Am J Sc (2) 5 : 243–249 (1848)

**48c** Remarks on the observations of S. S. Haldeman "on the supposed identity of *Atops trilineatus* with *Triarthrus beckii.*" Am J Sc (2) 5 : 322–327, il (1848)

**Hall,** James—Continued.

**49** List of minerals, geological specimens, and fossils, added to the collection during 1847 and 1848. N Y St Cab, An Rp 2 : 65–70 (1849)

**49a** On the supposed impression in shale of the soft parts of *Orthoceras*. G Soc London, Q J 5 : 107–111, il (1849)

**50** Description of new species of fossils, and observations upon some other species, previously not well known, from the Trenton limestone. N Y St Cab, An Rp 3 : 173–183, il (1850)

**50a** On the trails and tracks in the sandstones of the Clinton group of New York ... Am As, Pr 2 : 256–260 (1850)

**50b** On the Brachiopoda of the Silurian period; particularly the Leptaenidae. Am As, Pr 2 : 347–351 (1850)

**50c** On graptolites, their duration in geological periods, and their value in the identification of strata. Am As, Pr 2 : 351–352 (1850)

**51** Catalogue of specimens of the rocks and fossils in the gray sandstone, Medina sandstone, Clinton group, Niagara group, Onondaga salt group, and a part of the Water-Lime group ... N Y St Cab, An Rp 4 : 117–146 (1851)

**51a** Report [on the preparation of volumes illustrating the paleontology of New York]. N Y, Legislature, S Doc no 32 : 9 pp [Albany 1851]

**51b** Lower Silurian system; Upper Silurian and Devonian series. *In* Foster, J. W., and Whitney, J. D., Report on the geology of the Lake Superior land district, pt 2 (U S, 32d Cong spec sess, S Ex Doc 4) : 140–166 (1851) Am J Sc (2) 17 : 181–194 (1854)

**51c** Description of new or rare species of fossils from the Paleozoic series. *In* Foster, J. W., and Whitney, J. D., Report on the geology of the Lake Superior land district, pt 2 (U S, 32nd Cong spec sess, S Ex Doc 4) : 203–231, il (1851)

**51d** Parallelism of the Paleozoic deposits of the United States and Europe. *In* Foster, J. W., and Whitney, J. D., Report on the geology of the Lake Superior land district, pt 2 (U S, 32nd Cong spec sess, S Ex Doc 4) : 285–318 (1851)

**51e** New genera of fossil corals. Am J Sc (2) 11 : 398–401 (1851)

**51f** [Discussion of paper, On the Silurian rocks of the Lake Superior land district, by Prof. Jas. Hall.] Am As, Pr 5 : 64–66 (1851)

**52** Descriptions of the organic remains of the lower middle division of the New York system. Pal N Y 2 : 362 pp, il (1852)

**Hall,** James—Continued.

**52a** A chart giving an ideal section of the successive formations, with an actual geological section from the Atlantic to the Pacific ocean, the whole illustrated by the characteristic fossils of each formation. 58 x 71 inches, Albany, N. Y. [1852]

**52b** Key to a chart of the successive geological formations, with an actual section from the Atlantic to the Pacific ocean, illustrated by the characteristic fossils of each formation. 72 pp, Boston 1852 [see also Hall, 52a]

**52c** Geology and paleontology. *In* Stansbury, Howard, Exploration and survey of the valley of the Great Salt Lake of Utah, including a reconnaissance of a new route through the Rocky Mountains (U S, 32nd Cong spec sess, S Ex Doc 3) : 399–414, il, Phila 1852 [another ed, with different title page, 1855]

**52d** Comparison of the geological features of Tennessee with those of the State of New York. Am As, Pr 6 : 256–259 (1852)

**52e** [Geological investigation on Drummond's Island and the north shore of Lakes Huron and Michigan.] Am Ac Arts, Pr 2 : 253–254 (1852)

**54** (with **Lyell,** Charles) Rapport sur la partie géologique de l'exposition de New York. An Mines (5) 6 : 1–83 (1854)

**55** Notes on some fossils of the so-called Taconic system described by Doctor Emmons. Am J Sc (2) 19 : 434–435 (1855)

**55a** The Mauvaises Terres [Bad Lands, Nebr.]. Can J 3 : 357 (1855)

**56** Descriptions and notices of the fossils collected upon the route [Whipple's reconnaissance near the thirty-fifth parallel]. U S, Pacific R R Expl (U S, 33d Cong 2d sess, S Ex Doc 78 and H Ex Doc 91) 3 pt 4 : 99–105, il (1956)

**56a** (and **Meek,** F. B.) Descriptions of new species of fossils from the Cretaceous formations of Nebraska, with observations upon *Baculites ovatus* and *B. compressus,* and the progressive development of the septa in *Baculites, Ammonites,* and *Scaphites.* Am Ac Arts, Mem n s 5 : 379–411, il (1856)

**56b** On the genus *Tellinomya* and allied genera. Can Nat 1 : 390–395, il (1856) N Y St Cab, An Rp 10 : 181–186, il (1857)

**57** Descriptions of Paleozoic fossils... N Y St Cab, An Rp 10 : 39–180, il (1857)

**57a** Geology and paleontology of the boundary. *In* Emory, W. H., Report on the United States and Mexican boundary survey... (U S, 34th Cong 1st sess, S Ex Doc 108 and H Ex Doc 135), v 1 pt 2 : 101–140, map (1857) Pp 126–138, Observations upon the Cretaceous strata of the United States..., reprinted *in* Am J Sc (2) 24 : 72–86 (1857)

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**57b** (assisted by **Lesley,** J. P.) Map illustrating the general geological features of the country west of the Mississippi River. [1857]

**57c** Direction of the currents of deposition and source of the materials of the older Paleozoic rocks (*abst*). Can Nat 2 : 284–286 (1857) Can J n s 3 : 88 (1858) Edinb N Ph J n s 6 : 348–349 (1857)

**57d** Observations upon the Carboniferous limestones of the Mississippi Valley (*abst*). Am J Sc (2) 23 : 187–203 (1857) Am As, Pr 10 pt 2 : 51–69 (1857) M Mag 9 : 529–542 (1857)

**57e** Remarks upon the genus *Archimedes* or *Fenestella* from the Carboniferous limestones of the Mississippi Valley. Am As, Pr 10 pt 2 : 176–180 (1857) Am J Sc (2) 23 : 203–204 (1857)

**57f** On some points in the geology of the upper Mississippi Valley (*abst*). Edinb N Ph J n s 5 : 362 (1857)

**57g** [Comments on Prof. Gibbes' paper on Niagara Falls.] Am As, Pr 10 pt 2 : 76–78 (1857)

**58** (and **Whitney,** J. D.) Report on the geological survey of the State of Iowa, embracing the results of investigations made during... 1855, 56 & 57. Vol 1 pt 1 Geology : xv, 472, 4, 4 pp, map ; pt 2 Paleontology : 473–724, 3, 30 pp, il [Albany, N Y] 1858

**58a** Report. *In* Report of the commissioners of the geological survey [of Wisconsin] : 3–5, Madison 1858

**58b** Report [on Canadian graptolites]. Can G S, Rp Prog 1857 : 109–145 (1858)

**58c** Note upon the genus *Graptolithus,* and description of some remarkable new forms from the shales of the Hudson River group... Can Nat 3 : 139–150, 161–177, il (1858) *Abst,* Am J Sc (2) 26 : 117–119 (1858)

**58d** Crinoids of New York [in advance of Palenotology of New York, vol. 3]. Am J Sc (2) 25 : 276–279 (1858)

**59** Descriptions and figures of the organic remains of the Lower Helderberg group and the Oriskany sandstone. N Y G S, Pal 3 : 532 pp, il [p!s vol] (1859)

**59a** Notice of the genera *Ambonychia, Palaearca,* and *Megambonia.* N Y St Cab, An Rp 12 : 8–14, il (1859)

**59b** Observations on the genera *Capulus, Pileopsis, Acroculia,* and *Platyceras.* N Y St Cab, An Rp 12 : 15–19, il (1859)

**59c** Observations on the genera *Platyostoma* and *Strophostylus.* N Y St Cab, An Rp 12 : 20–21, il (1859)

**59d** Observations on the genus *Nucleospira.* N Y St Cab, An Rp 12 : 24–26, il (1859)

**Hall,** James—Continued.

**59e** [Observations on genera of Brachiopoda.] N Y St Cab, An Rp 12 : 27–44, il (1859)

**59f** Notes upon the genus *Graptolithus.* N Y St Cab, An Rp 12 : 45–58, il (1859)

**59g** Trilobites of the shales of the Hudson River group. N Y St Cab, An Rp 12 : 59–62, il (1859)

**59h** Catalogue of the species of fossils... of New York. N Y St Cab, An Rp 12 : 63–96 (1859)

**59i** Supplementary note on the genus *Ambonychia.* N Y St Cab, An Rp 12 : 110, il (1859)

**59j** Contributions to the paleontology of Iowa ; being descriptions of new species of Crinoidea and other fossils. Iowa G S 1 pt 2 Sup : 94 pp, il [Albany] 1859

**59k** New American trilobites [from Hudson River group of Vermont]. Can J n s 4 : 491–493 (1859)

**60** Notices of new forms of the genus *Graptolithus,* and allied genera. N Y St Cab, An Rp 13 : 55–64, il (1860)

**60a** [Observations on Brachiopoda.] N Y St Cab, An Rp 13 : 65–75, il (1860)

**60b** Descriptions of new species of fossils, from the Hamilton group of western New York, with notices of others from the same horizon in Iowa and Indiana. N Y St Cab, An Rp 13 : 76–94, il (1860)

**60c** Notes and observations upon the fossils of the Goniatite limestone in the Marcellus shale of the Hamilton group in... New York and those of the Goniatite beds of Rockford, Ind.; with some analogous forms from the Hamilton group proper. N Y St Cab, An Rp 13 : 95–112, 125, il (1860)

**60d** Note upon the tribolites of the shales of the Hudson River group in the town of Georgia, Vt. N Y St Cab, An Rp 13 : 113–119, il (1860) Report on the geology of Vermont (Hitchcok) 1 : 367–372 (1861)

**60e** New species of fossils from the Hudson River group of Ohio and other Western States. N Y St Cab, An Rp 13 : 119–121, il (1860)

**60f** Observations upon a new genus of Crinoidea, *Cheirocrinus.* N Y St Cab, An Rp 13 : 121–124, il (1860)

**60g** New species of fossils from the Niagara group of Wisconsin. Report of Progress for 1859. 4 pp. Albany 1860 [not seen]

**60h** Report... in relation to the geological survey of the State of Iowa... 15 pp, Des Moines, Iowa, 1860 *Also in* Iowa, Legislative documents, 1859–60 [not seen]

**60i** Descriptions of new species of fossils from the Silurian rocks of Nova Scotia. Can Nat 5 : 144–159, il (1860)

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**60j** On the formation of mountain ranges (*abst*). Can J n s 5 : 542–544 (1860)

**61** ... fossils from the rocks of Hudson River group of Ohio and the Western States; with descriptions. N Y St Cab, An Rp 14 : 89–92 (1861)

**61a** Note on the genera *Bellerophon, Bucania, Carinaropsis,* and *Cyrtolites.* N Y St Cab, An Rp 14 : 93–98 (1861)

**61b** Descriptions of new species of fossils from the Upper Helderberg, Hamilton, and Chemung groups. N Y St Cab, An Rp 14 : 99–109 (1861)

**61c** Report of the superintendent of the Geological Survey, exhibiting the progress of the work, January 1, 1861 [including Descriptions of new species of fossils from the investigations of the Survey]. 52 pp, Madison 1861

**61d** Descriptions of new species of Crinoidea; from investigations of the Iowa Geological Survey. Preliminary notice. 19 pp, Albany 1861

**61e** Descriptions of new species of Crinoidea from the Carboniferous rocks of the Mississippi Valley. Boston J N H 7 : 261–328 (1861)

**61f** [On the Primordial fauna and Point Levis, Quebec, fossils.] Am J Sc (2) 31 : 220–226 (1861) Can Nat 6 : 113–120 (1861) Can J n s 6 : 284–292 (1861) Report on the geology of Vermont (Hitchcock) 1 : 382–386 (1861)

**61g** New species of *Orthoceras* [*hageri*]. *In* Report on the geology of Vermont (Hitchcock) 2 : 718, il (1861)

**62** ... descriptions of new species of fossils from the Upper Helderberg, Hamilton, and Chemung groups. N Y St Cab, An Rp 15 : 29–80 (1862) [Advance pub 1861]

**62a** [On the position of the goniatite beds of Rockford, Ind.] N Y St Cab, An Rp 15 : 81 (1862)

**62b** Preliminary notice of the trilobites and other Crustacea of the Upper Helderberg, Hamilton, and Chemung groups. N Y St Cab, An Rp 15 : 82–113 (1862) [Advance pub 1861]

**62c** Preliminary notice of some of the species of Crinoidea known in the Upper Helderberg and Hamilton groups of New York. N Y St Cab, An Rp 15 : 115–153, il (1862)

**62d** Observations upon a new genus of Brachiopoda. N Y St Cab, An Rp 15 : 154–155, il (1862)

**62e** Observations on the genera *Athyris* (=*Spirigera*), *Merista, Camarium, and Meristella.* N Y St Cab, An Rp 15 : 176–181, il (1862)

**62f** Descriptions of new species of fossils, chiefly from the Hamilton group of western New York. N Y St Cab, An Rp 15 : 181–191, il (1862)

**Hall,** James—Continued.

**62g** Note on the genus *Cypricardites.* N Y St Cab, An Rp 15 : 192–193, il (1862)

**62h** [Illustrations of Conrad's species, Annual report 1841.] N Y St Cab, An Rp 15 : 194, il (1862)

**62i** Notes and corrections. N Y St Cab, An Rp 15 : 195–197 (1862)

**62j** (and **Whitney,** J. D.) Report of the geological survey of the State of Wisconsin. Volume I. 455 pp, maps [Albany, N. Y.] 1862 [Whitney's part also issued separately. See Whitney, 62]

**62k** Paleontology of Wisconsin; remarks upon the condition of the fossils in the rocks of the several formations; catalogue of fossils known in the Paleozoic formations of Wisconsin, with observations upon some of the known species and descriptions of several new forms. *In* Report of the geological survey of the State of Wisconsin, vol. I : 425–442 (1862)

**62l** [Sur la faune primordiale en Amérique.] Soc G France, B (2) 19 : 725–734 (1862)

**62m** On the Catskill group of New York. Can Nat 7 : 377–381 (1861)

**62n** On a new crustacean from the Potsdam sandstone [*Aglaspis,* Wisconsin.] Can Nat 7 : 443–445, il (1862) *Abst,* Am J Sc (2) 35 : 295 (1863)

**62o** On the Taconic system of Dr. Emmons. Am Ph Soc, Pr 9 : 5–7 (1862)

**62p** ... on the Potsdam sandstone and Hudson River rocks in Vermont. Am J Sc (2) 33 : 106–108 (1862)

**62q** ... rejoinder to criticisms ... on his Contributions to paleontology. Am J Sc (2) 33 : 127–132 (1862)

**63** Descriptions of new species of Brachiopoda from the Upper Helderberg, Hamilton, and Chemung groups. N Y St Cab, An Rp 16 : 19–37 (1863)

**63a** Observations upon some of the Brachiopoda, with reference to the characters of the genera *Cryptonella, Centronella, Meristella, Trematospira, Rynchospira, Retzia, Leptocoelia,* and allied forms. N Y St Cab, An Rp 16 : 38–59, il (1863)

**63b** Note on the genus *Leptocoelia.* N Y St Cab, An Rp 16 : 59–61, il (1863)

**63c** Observations upon the genus *Streptorhynchus,* with remarks upon some species heretofore referred to the genera *Strophomena* and *Orthis.* N Y St Cab, An Rp 16 : 61–66, il (1863)

**63d** Note on the geological range of the genus *Receptaculites* in American Paleozoic strata. N Y St Cab, An Rp 16 : 67–69 (1863)

**63e** Note on the occurrence of *Astylospongia* in the Lower Helderberg rocks. N Y St Cab, An Rp 16 : 69–70 (1863)

**Hall**, James—Continued.

**63f** On the occurrence of crustacean remains of the genera *Ceratiocaris* and *Dithyrocaris*, with a notice of some new species from the Hamilton group and Genesee slate. N Y St Cab, An Rp 16 : 71–75, il (1863)

**63g** Observations upon some spiral-growing fucoidal remains of the Paleozoic rocks of New York. N Y St Cab, An Rp 16 : 76–83, il (1863)

**63h** Observations upon the genera *Uphantaenia* and *Dictyophyton;* with notices of some species from the Chemung group of New York, and the Waverly sandstone of Ohio. N Y St Cab, An Rp 16 : 84–91, il (1863)

**63i** The flora of the Devonian period. N Y St Cab, An Rp 16 : 92–118, il (1863)

**63j** ...fauna of the Potsdam sandstone... of the upper Mississippi Valley. N Y St Cab, An Rp 16 : 119–222, il (1863) Albany Inst, Tr 5 : 93–195, il (1867)

**63k** Notes and corrections. N Y St Cab, An Rp 16 : 223–226 (1863)

**63l** Observations upon some of the Brachiopoda, with reference to the genera *Cryptonella, Centronella, Meristella,* and allied forms. Albany Inst, Tr 4 : 125–148, il (1864) Am J Sc (2) 35 : 396–406 ; 36 : 11–15, il (1863)

**64** Preliminary notice of some species of Crinoidea from the Waverly sandstone series of Summit Co., Ohio, supposed to be of the age of the Chemung group of New York. N Y St Cab, An Rp 17 : 50–60 (1864)

**64a** [Remarks on the Catskill group.] Albany Inst, Tr 4 : 307–308 (1864)

**64b** Notice of some new species of fossils from a locality of the Niagara group, in Indiana ; with a list of identified species from the same place. Albany Inst, Tr 4 : 195–228 (1864)

**64c** Description of new species of fossils from the Carboniferous limestones of Indiana and Illinois. Albany Inst, Tr 4 : 1–36 (1864)

**64d** (and **Logan,** W. E.) On the geology of eastern New York. Can Nat n s 1 : 368–369 (1864) Am J Sc (2) 39 : 96–97 (1864)

**65** Figures and descriptions of Canadian organic remains ; Decade II, Graptolites of the Quebec group. Can G S : 151 pp, il (1865)

**65a** On the graptolites of the Quebec group. Can Nat n s 2 : 42–53 (1865)

**65b** On the occurrence of an internal convoluted plate within the body of certain species of Crinoidea. Boston Soc N H, Pr 10 : 33–34 (1865) An Mag N H (3) 17 : 398–399 (1866)

**Hall**, James—Continued.

**66** Descriptions of some new species of Crinoidea and other fossils from the Lower Silurian strata of the age of the Hudson River group and Trenton limestone. 17 pp. Printed in advance from the Report of the State Cabinet for 1866. Albany, 1866 N Y St Mus, An Rp 24 : 205–224 (1872)

**66a** Observations on some species of *Spirifera*. Am Ph Soc, Pr 10 : 246–254 (1866) Pal N Y 4 : 251–257 (1867)

**67** Descriptions and figures of the fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage, and Chemung groups. N Y G S, Pal 4 : 428 pp, il (1867)

**67a** Notice of volume IV of the Paleontology of New York. N Y St Cab, An Rp 20 : 145–168, il (1867)

**67b** Introduction to the study of the Graptolitidæ. N Y St Cab, An Rp 20 : 169–240, il (1867)

**67c** [Observations on genera of Brachiopoda.] N Y St Cab, An Rp 20 : 241–281, il (1867)

**67d** [Notes on *Paleaster* and other Echinodermata.] N Y St Cab, An Rp 20 : 282–304, il (1867)

**67e** Account of some new or little known species of fossils from rocks of the age of the Niagara group. N Y St Cab, An Rp 20 : 305–401, il (1867) [Rev ed, 1870]

**67f** On the geological structure of the southern part of Minnesota (*abst*). Can Nat n s 3 : 120–121 (1866) [1867]

**67g** On the geological relations of the mastodon and fossil elephant of North America (*abst*). Am Nat 1 : 500 (1867)

**68** Report on building stones. 68 pp. Albany, N. Y., 1868

**69** Geological history of the North American continent ; a lecture delivered before the American Institute in New York. 24 pp, Albany 1869

**69a** Notes upon the geology of some portions of Minnesota, from St. Paul to the western part of the State. Am Ph Soc, Tr n s 13 : 329–340 (1869)

**69b** (with **Logan, W. E.**) Geological map of Canada ... [and of adjacent parts of the United States]. Scale 1 : 1,584,000. Can G S 1866 [1869] Notice, Am J Sc (2) 49 : 394–398 (1870)

**70** On the relations of the Oneonta sandstone and Montrose sandstone of Vanuxem with the Hamilton and Chemung groups (*abst*). Am Nat 4 : 563–565, 639–640 (1870)

**70a** Recent progress in geology (*abst*). Albany Inst, Tr 6 : 291–294 (1870)

**71** Notes and observations on the Cohoes [N. Y.] mastodon. N Y St Cab, An Rp 21 : 99–128 (1871)

**Hall**, James—Continued.

**71a** [Report on the] geological survey of the State of Wisconsin, 1859–1863. Paleontology, Part Third. Organic remains of the Niagara group and associated limestones. 94 pp, il, Albany 1871 [See also 67e]

**71b** On the fossil bivalve shells of the Upper Helderberg, Hamilton, Portage, and Chemung groups (*abst*). Albany Inst, Pr 1:125–127 (1871)

**71c** [On fossil trees from Gilboa, Schoharie Co., N. Y.] Albany Inst, Pr 1: 129–131, 132–134 (1871)

**72** (and **Whitfield**, R. P.) Description of new species of fossils from the vicinity of Louisville, Ky., and the Falls of the Ohio. N Y St Mus, An Rp 24:181–200 (1872)

**72a** (and **Whitfield**, R. P.) Remarks on some peculiar impressions in sandstone of the Chemung group, N. Y. N Y St Mus, An Rp 24: 201–204, il (1872)

**72b** Description of new species of fossils from the Hudson River group, in the vicinity of Cincinnati, Ohio. N Y St Mus, An Rp 24: 225–232, il (1872) [Advance print 1871]

**72c** Reply to a "Note on a question of priority." Am J Sc (3) 4:105–109 (1872)

**72d** On the occurrence of trunks of *Psaronius* in an erect position, resting on their original bed, in rocks of the Devonian age in the State of New York ... (*abst*). Brit As, Rp 42: sec 103 (1872)

**72e** On the occurrence of trunks of *Psaronius* in an erect position resting on their original bed, in rocks of Devonian age in the State of New York ... G Mag 9:463–465 (1872)

**72f** On the relations of the middle and upper Silurian (Clinton, Niagara, and Lower Helderberg) rocks of the United States. G Mag 9:509–513 (1872) *Abst*, Brit As, Rp 42: sec 103–104 (1873)

**73** (and **Whitfield**, R. P.) Descriptions of new species of fossils from the Devonian rocks of Iowa. N Y St Cab, An Rp 23: 223–239 (1873)

**73a** (and **Whitfield**, R. P.) Notice of three new species of fossil shells from the Devonian of Ohio. N Y St Cab, An Rp 23: 240–241 (1873)

**73b** (and **Whitfield**, R. P.) Notice of two new species of fossil shells from the Potsdam sandstone of New York. N Y St Cab, An Rp 23: 241–242 (1873)

**73c** [Note on *Trematis*.] N Y St Cab, An Rp 23: 243 (1873)

**73d** Notes on some new or imperfectly known forms among the Brachiopoda, etc. N Y St Cab, An Rp 23: 244–247 (1873)

**74** Record of borings of Gardner oil well No. 3 at East Shamburg, Pa. N Y St Mus, An Rp 26: 31–33 (1874)

**74a** Descriptions of Bryozoa and corals of the Lower Helderberg group. N Y St Mus, An Rp 26: 93–116 (1874)

**Hall**, James—Continued.

**74b** On the relations of the Niagara and Lower Helderberg formations, and their geographical distribution in the United States and Canada. Am As, Pr 22 pt 2: 321–335 (1874) N Y St Mus, An Rp 27: 117–131 (1875) *Abst*, Can Nat n s 7: 157–159 (1874)

**75** Descriptions of new species of Goniatitidae, with a list of previously described species. N Y St Mus, An Rp 27: 132–136 (1875)

**75a** (and **Whitfield**, R. P.) Descriptions of invertebrate fossils, mainly from the Silurian system. Ohio G S, Rp 2 pt 2 Paleontology: 65–157, il (1875)

**75b** (and **Whitfield**, R. P.) Crinoids of the Genesee slate and Cheming group. Ohio G S, Rp 2 pt 2 Paleontology: 158–161, il (1875)

**75c** (and **Whitfield**, R. P.) Crinoidea of the Waverly group. Ohio G S, Rp 2 pt 2 Paleontology: 162–179, il (1875)

**75d** Report [on Hoosac tunnel]. *In* Boston, Hoosac Tunnel, and Western Railroad Company, Report of the Corporators (Mass., H Doc no 9), Appendix: iii–xxiv Boston 1875

**76** The fauna of the Niagara group, in central Indiana. N Y St Mus, An Rp 28: 99-203, il [doc ed, without text, 1876] (1879)

**76a** Illustrations of Devonian fossils; corals of the Upper Helderberg and Hamilton groups. N Y G S, Pal: 39 pls and expl (1876)

**76b** Note upon the geological position of the serpentine limestone of northern New York and an inquiry regarding the relations of this limestone to the Eozoon limestones of Canada (*abst*). Am J Sc (3) 12: 298–300 (1876)

**76c** On the geology of the southern counties of New York and adjacent parts of Pennsylvania, especially with reference to the age and structure of the Catskill Mountain Range (*abst*). Am As, Pr 24 pt 2: 80–84 (1876) Am J Sc (3) 12: 300–304 (1876)

**77** (and **Whitfield**, R. P.) Paleontology. U S G Expl 40th Par (King), 4: 197–302, il (1877)

**78** Note on the genus *Plumalina*. N Y St Mus, An Rp 30: 255–256, il (1878)

**78a** Note upon the history and value of the term Hudson River group in American geological nomenclature. Am As, Pr 26: 259–265 (1878)

**78b** [Geology of the Catskill region, N. Y.] Albany Inst, Pr 2: 126–130, 213–217 (1878)

**78c** [Observations on the geological structure of Marthas Vineyard and adjacent islands, Mass.] Albany Inst, Pr 2: 148–149 (1878)

**78d** On the geology of the Au Sable region. Albany Inst, Pr 2: 247–250 (1878)

**Hall**, James—Continued.

**79** Descriptions of the Gastropoda, Pteropoda, and Cephalopoda of the Upper Helderberg, Hamilton, Portage, and Chemung groups. N Y G S, Pal 5 pt 2 : xv, 492 pp, il [pls vol] (1879)

**79a** Notice of some remarkable crinoidal forms from the Lower Helderberg group. N Y St Mus, An Rp 28 : 205–210, il (1879)

**79b** Corals and bryozoans of the Lower Helderberg group. N Y St Mus, An Rp 32 : 141–176 (1879)

**79c** The hydraulic beds and associated limestones at the Falls of the Ohio. Albany Inst, Tr 9 : 169–180 (1879)

**80** Sur la nomenclature des terrains paléozoïques aux États-Unis. Int G Cong, Paris 1878, C R : 60–67, (1880)

**80a** Note upon the relations of the Oneonta and Montrose sandstones of Vanuxem, and their relation to the sandstones of the Catskill Mountains. Science (ed, Michels) 1 : 290 (1880)

**82** Memorial [*in re* Paleontology of New York] to the legislature of the State of New York. N Y, Senate Doc No 80, 5 pp (1882) [See also N Y Senate Doc No. 88, 17 pp (1882)

**82a** Descriptions of the species of fossils found in the Niagara group at Waldron, Ind. Ind, Dp G N H, An Rp 11 : 217–345, il (1882)

**83** [Second annual] report of the State geologist for the year 1882. N Y, Assembly Doc no 178 : 17 pp, il (1883)

**83a** Discussion upon the manner of growth, variation of form and characters of the genus *Fenestella*, and its relations to *Hemitrypa, Polypora, Retepora, Cryptopora*, etc. N Y St G, An Rp 2 : 5–17, il (1883)

**83b** Fossil corals and bryozoans of the Lower Helderberg group, and fossil bryozoans of the Upper Helderberg group [illustrations]. N Y St G, An Rp 2 : 17, il (1883)

**83c** List of Niagara fossils from Waldron, Ind. N Y St Mus, An Rp 36 : 21–25 (1883)

**83d** Bryozoa (Fenestellidae) of the Hamilton group. N Y St Mus, An Rp 36 : 57–72 (1883)

**83e** On the structure of the shell in the genus *Orthis*. N Y St Mus, An Rp 36 : 73–75, il (1883)

**83f** Despriction of a new species of *Stylohurus* from the Catskill group [N. Y.] N Y St Mus, An Rp 36 : 76–77, il (1883)

**83g** [Description of *Cryptozoön proliferum*, n. g. and sp.] N Y St Mus, An Rp 36 : pl 6 and explanation (1883)

**83h** Van Cleve's fossil corals. Ind, Dp G N H, An Rp 12 : 239–270, il (1883)

**Hall**, James—Continued.

**83i** Descriptions of fossil corals from the Niagara and Upper Helderberg groups of Indiana. Ind, Dp G N H, An Rp 12 : 271–318, il (1883) *In part,* N Y St Mus, An Rp 35 : 407–464 (1884)

**83j** [Spergen Hill fossils.] Ind, Dp G N H, An Rp 12 : 319–375, il (1883)

**83k** Descriptions of new species of fossils from the Niagara formation at Waldron, Ind. Albany Inst, Tr 10 : 57–76 (1883)

**83l** Bryozoans of the Upper Helderberg and Hamilton groups. Albany Inst, Tr 10 : 145–197 (1883)

**83m** Contributions to the geological history of the American continent. Am As, Pr 31 : 29–69 (1883)

**83n** Preliminary note on the microscopic shell structure of the Paleozoic Brachiopoda (*abst*). Am As, Pr 32 : 266–268 (1884) Science 2 : 325–326 (1883)

**83o** The New York geological survey. Pop Sc Mo 22 : 815–825 (1883)

**84** Lamellibranchiata, I, Descriptions and figures of the Monomyaria of the Upper Helderberg, Hamilton, and Chemung groups. N Y G S, Pal 5 pt 1, I : xviii, 268 pp, il [pls and expl, 1883] (1884)

**84a** [First annual] report of the State geologist. N Y, Assembly [1882] Doc no 32 : 15 pp, il (1884)

**84b** Classification of the Lamellibranchiata [and descriptions of genera and figures of species]. N Y St G, An Rp 1 : 8–15, il (1884)

**84c** [Third annual] report of the State geologist for the year 1883. N Y, Assembly Doc no 111 : 61 pp (1884)

**84d** Descriptions of the bryozoans of the Hamilton group (Fenestellidae excepted). N Y St G, An Rp 3 : 5–61 (1884)

**84e** Preliminary notice of the lamellibranchiate shells of the Upper Helderberg, Hamilton, and Chemung groups. N Y St Mus, An Rp 35 : 215–406g (1884)

**84f** Descriptions of fossil corals from the Niagara and Upper Helderberg groups. N Y St Mus, An Rp 35 : 407–464, il (1884) [Published in advance : 59 pp, Albany 1882]

**84g** Descriptions of the species of fossil reticulate sponges, constituting the family Dictyospongidae. N Y St Mus, An Rp 35 : 465–481, il (1884)

**84h** Note on the Eurypteridae of the Devonian and Carboniferous formations of Pennsylvania. Pa G S, 2d, PPP : 23–39, il (1884)

**84i** On the fossil reticulate sponges constituting the family Dictyospongidae (*abst*). Brit As, Rp 54 : 725–726 (1885) G Mag (3) 1 : 557–558 (1884)

**Hall,** James—Continued.

**84j** On the lamellibranchiate fauna of the Upper Helderberg, Hamilton, Portage, Chemung, and Catskill groups ... (*abst*). Brit. As, Rp 54 : 726–727 (1885) G Mag (3) 1 : 559–560 (1884)

**85** Lamellibranchiata, II, Descriptions and figures of the Dimyaria of the Upper Helderberg, Hamilton, Portage, and Chemung groups. N Y G S, Pal 5 pt 1, II : lxii, 269–561, il (1885)

**85a** [Fouth annual] report of the State geologist for the year 1884. N Y, Assembly Doc no 161 : 47 pp, il (1885)

**85b** On the mode of growth and relations of the Fenestellidae. N Y St G, An Rp 4 : 35-45, il (1885)

**85c** On the relations of the genera *Stictopora, Ptilodictya, Acrogenia,* and allied forms in the Paleozoic rocks of New York. N Y St G, An Rp 4 : 46, il (1885)

**85d** [On the characters of pectinoid shells.] N Y St G, An Rp 4 : 47–48, il (1885)

**85e** Report of the State geologist. N Y St Mus, An Rp 38 : 61–65 (1885)

**85f** Note on the intimate relations of the Chemung group and Waverly sandstone in northwestern Pennsylvania and southwestern New York (*abst*). Am As, Pr 33 : 416–419 (1885)

**85g** Note on the Eurypteridae of the Devonian and Carboniferous formations of Pennsylvania; with a supplementary note on *Stylonurus excelsior*. Am As, Pr 33 : 420–422 (1885)

**86** Fifth annual report of the State geologist for the year 1885. N Y, Assembly Doc no 105 : 47 pp, il, map (1886)

**86a** [Illustrations with explanations of Upper Helderberg fossils.] N Y St G, An Rp 5 : pls (1886)

**86b** Note on some obscure organisms in the roofing slates of Washington Co., N. Y. [*Dactyloidites bulbosus*]. N Y St Mus, An Rp 39 : 160, il (1886)

**86c** Report on building stones. N Y St Mus, An Rp 39 : 186–225 (1886)

**86d** Report of the State geologist. N Y St Mus, An Rp 39 : 226–229 (1886)

**87** (and **Simpson,** G. B.) Corals and Bryozoa; descriptions and figures of species from the Lower Helderberg, Upper Helderberg, and Hamilton groups. N Y G S, Pal 6 : xxvi, 298 pp, il (1887)

**87a** Sixth annual report of the State geologist. N Y, Assembly Doc no 72 : 70 pp, il (1887)

**87b** Note on the occurrence of the Dictyospongidae in the State of New York. N Y St G, An Rp 6 : 36–38, map (1887)

**87c** Note on the discovery of a skeleton of an elk (*Elaphus canadensis*) in the town of Farmington, Ontario Co. [N. Y.]. N Y St G, An Rp 6 : 39 (1887)

**Hall,** James—Continued.

**87d** Descriptions of Fenestellidae of the Hamilton group of New York. N Y St G, An Rp 6 : 41–70, il (1887)

**88** Supplement, containing descriptions and illustrations of Pteropoda, Cephalopoda, and Annelida. N Y G S, Pal 5 pt 2 sup : 42 pp, il (1888)

**88a** (and **Clarke,** J. M.) Descriptions of the trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung, and Catskill groups. N Y G S, Pal 7 : lxiv, 236 pp, il (1888)

**88b** Report of the State geologist for the year 1887. N Y St Mus, An Rp 41 : 359–387 (1888) N Y St G, An Rp 9 : 73–104 (1890)

**88c** Description of new species of Fenestellidae of the Lower Helderberg, with explanation of plates illustrating species of the Hamilton group, described in the report of the State geologist for 1886. N Y St Mus, An Rp 41 : 391–394, il (1888)

**89** Eighth annual report of the State geologist for the year 1888. N Y, Senate Doc no 66 : 150 pp (1889) N Y St Mus, An Rp 42 : 349–496 (1889)

**89a** Catalogue of the specimens arranged by Prof. E. Emmons, as representatives of the Taconic system, in the State Cabinet of Natural History, at the close of the geological survey of New York in 1843. N Y St G, An Rp 8 : 95–98 (1889) N Y St Mus, An Rp 42 : 441–444 (1889)

**89b** [On tracks in Potsdam sandstone.] N Y St Mus, An Rp 42 : 25–34, il (1889)

**89c** Description of *Linnarssonia* cf. *pretiosa* Billings. R Soc Can, Pr Tr 7, iv : 55 (1889)

**90** Ninth annual report of the State geologist for the year 1889. N Y, Senate Doc no 60 : 104 pp (1890) N Y St Mus, An Rp 43 : 207–306 (1890)

**90a** New forms of Dictyospongidae from the rocks of the Chemung group. N Y St G, An Rp 9 : 56–60 (1890) N Y St Mus, An Rp 43 : 258–262 (1890) *Abst* (with discussion by William Dawson), G Soc Am, B 1 : 22–23 (1890)

**90b** Some suggestions regarding the subdivision and grouping of the species usually included under the generic term *Orthis* ... (*abst*). G Soc Am, B 1 : 19–22 (1890)

**90c** On the genus *Spirifera*, and its interrelations with the genera *Spiriferina, Syringothyris, Cyrtia,* and *Cyrtina* (*abst*). G Soc Am, B 1 : 567–568 (1890)

**91** Tenth annual report of the State geologist for the year 1890. N Y, Senate Doc no 76 : 155 pp, il (1891) N Y St Mus, An Rp 44 : 35–114, il (1892)

**91a** The genera of the Paleozoic Brachiopoda. N Y St G, An Rp 10 : 15–17 (1891) N Y St Mus, An Rp 44 : 45–48 (1892)

**Hall,** James—Continued.

**91b** Continuation of descriptions of Bryozoa, not printed in volume VI, Paleontology of New York. N Y St G, An Rp 10 : 35–57 (1891) N Y St Mus, An Rp 44 : 65–87 (1892)

**91c** Preliminary notice of *Newberria*, a new genus of brachiopods; with remarks on its relations to *Rensselaeria* and *Amphigenia*. N Y St G, An Rp 10 : 91–98, il (1891)

**91d** On the family Orthidae of the Brachiopoda (*abst*). G Soc Am, B 2 : 636 (1891)

**92** Eleventh annual report of the State geologist for the year 1891. N Y Senate Doc no 65 : 223 pp, il (1892) N Y St Mus, An Rp 45 : 321–369 (1892)

**92a** (and **Clarke,** J. M.) An introduction to the study of the Brachiopoda, intended as a hand book for the use of students. N Y St G, An Rp 11 : 133–223, il (1892) N Y St Mus, An Rp 45 : 449–616, il (1892)

**92b** The Oneonta sandstone and its relations to the Portage, Chemung, and Catskill groups (discussion). G Soc Am, B 4 : 8–9 (1892) *Abst*, Am G 10 : 194 (1892)

**93** (and **Clarke,** J. M.) An introduction to the study of the genera of Paleozoic Brachiopoda. N Y G S, Pal 8 pt 1 : 367 pp, il (1893) ; pt 2 : 394 pp, il (1894)

**93a** Twelfth annual report of the State geologist for the year 1892. N Y, Senate Doc no 40 : 142 pp (1893) N Y St Mus, An Rp 46 : 153–187 (1893)

**93b** A geological map of the State of New York. Am I M Eng, Tr 21 : 566–572 (1893)

**94** Thirteenth annual report of the State geologist for the year 1893. N Y, Senate Doc no 88 : 597 pp, il (1894) N Y St Mus An Rp 47 : 201–1137, il (1894)

**94a** The Livonia salt shaft, its history and geological relations, etc. N Y St G, An Rp 13 : 9–22, map (1894) N Y St Mus, An Rp 47 : 203–216, map (1894)

**94b** (and **Clarke,** J. M.) Report of department of paleontology. N Y St G, An Rp 13 : 599–657 (1894) N Y St Mus, An Rp 47 : 793–851 (1894)

**94c** (and **Clarke,** J. M.) An introduction to the study of the Brachiopoda, intended as a handbook for the use of students, Part II. N Y St G, An Rp 13 : 749–1015, il (1894) N Y St Mus, An Rp 47 : 945–1137, il (1894)

**95** Report of the State geologist. N Y St Mus, An Rp 48 : 41–44 (1895)

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**88** The northern limit of the Mesozoic rocks of Arkansas. Ark G S, An Rp 1888, 2 : 261–290 (1888)

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**99** Descriptions of two new species of tortoises from the Tertiary of the United States. U S Nat Mus, Pr 22 : 21–24, il (1899)

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**02** Bibliography and catalogue of the fossil vertebrata of North America. U S G S, B 179 : 868 pp (1902) Rv by Bashford Dean, Science n s 16 : 701–703 (1902)

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**02c** The composition of the shells of turtles (*abst*). N Y Ac Sc, An 14 : 111–112 (1902)

**02d** Snoutfishes of Kansas (*abst*). Am G 29 : 192–193 (1902) Science n s 15 : 470 (1902) N Y Ac Sc, An 15 : 15 (1903)

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**03b** Description of a new genus and species of tortoise from the Jurassic of Colorado. Carnegie Mus, An 2 : 201–203, il (1903)

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**04a** On two species of turtles from the Judith River beds of Montana. Carnegie Mus, An 3 : 178–182, il (1904)

**04b** Society of the Vertebrate Paleontologists of America [Philadelphia, December 29, 1903]. Science n s 19 : 253–257 (1904)

**04c** On the finding of skulls of Trionychidae in the Bridger deposits of Wyoming (*abst*). Science n s 19 : 254 (1904)

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**05c** The progress of vertebrate paleontology at the American Museum of Natural History, New York. Am G 35 : 31–34 (1905)

**Hay**, Oliver Perry—Continued.

**05d** Meeting of Section A of the American Paleontological Society. Am G 35: 124–126 (1905)

**05e** The fossil turtles of the Bridger basin. Am G 35 : 327–342, il (1905)

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**06** Descriptions of two new genera (*Echmatemys* and *Xenochelys*) and two new species (*Xenochelys formosa* and *Terrapene putnami*) of fossil turtles. Am Mus N H, B 22 : 27–31, il (1906)

**06a** On two interesting genera of Eocene turtles, *Chisternon* Leidy and *Anosteira* Leidy. Am Mus N H, B 22 : 155–160, il (1906)

**06b** Descriptions of new species of turtles of the genus *Testudo*, collected from the Miocene by the Carnegie Museum; together with a description of the skull of *Stylemys nebrascensis*. Carnegie Mus, An 4 : 15–20, il (1906)

**06c** Systematic paleontology of the Pleistocene deposits of Maryland; Reptilia. Md G S, Pliocene and Pleistocene : 169–170, il (1906)

**07** Descriptions of seven new species of turtles from the Tertiary of the United States. Am Mus N H, B 23 : 847–863, il (1907)

**07a** A new fossil stickleback fish from Nevada. U S Nat Mus, Pr 32 : 271–273 (1907)

**07b** A new genus and species of fossil shark related to *Edestus* Leidy. Science n s 26 : 22–24, il (1907)

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**08** Descriptions of five species of North American fossil turtles, four of which are new. U S Nat Mus, Pr 35 : 161–169, il (1908)

**08a** On certain genera and species of carnivorous dinosaurs, with special reference to *Ceratosaurus nasicornis* Marsh. U S Nat Mus, Pr 35 : 351–366, il (1908)

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**09c** On the restoration of skeletons of fossil vertebrates. Science n s 30 : 93–95 (1909)

**09d** The geological and geographical distribution of some Pleistocene mammals. Science n s 30 : 890–893 (1909)

**09e** On the nature of *Edestus* and related genera, with descriptions of one new genus and three new species. U S Nat Mus, Pr 37 : 43–61, il (1909)

**10** On the changes of climate following the disappearance of the Wisconsin ice sheet. Int G Cong, XI, Stockholm, Die Veränderungen des Klimas seit dem Maximum der letzten Eiszeit : 371–374 (1910)

**10a** Where do the Lance Creek ("*Ceratops*") beds belong, in the Cretaceous or the Tertiary? Ind Ac Sc, Pr 1909 : 277–303 (1910)

**10b** On the manner of locomotion of the dinosaurs, especially *Diplodocus*, with remarks on the origin of the birds. Wash Ac Sc, Pr 12 : 1–25, il (1910)

**10c** Descriptions of eight new species of fossil turtles from west of the one hundredth meridian. U S Nat Mus, Pr 38 : 307–326, il (1910)

**11** A fossil specimen of the alligator snapper (*Macrochelys temminckii*) from Texas. Am Ph Soc, Pr 50 : 452–455, il (1911)

**11a** Further observations on the pose of the sauropodous dinosaurs. Am Nat 45 : 398–412 (1911)

**12** The Pleistocene age and its vertebrata. Ind, Dp G, An Rp 36 : 539–784, maps (1912)

**12a** Ten years' progress in vertebrate paleontology; Chelonia. G Soc Am, B 23 : 212–220 (1912)

**12b** The recognition of Pleistocene faunas. Smiths Misc Col 59 no 20 : 16 pp, maps (1912)

**12c** On an important specimen of *Edestus*, with description of a new species, *Edestus mirus*. U S Nat Mus, Pr 42 : 31–38, il (1912)

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**13** Notes on some fossil horses, with descriptions of four new species. U S Nat Mus, Pr 44 : 569–594, il (1913)

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**13a** Description of the skull of an extinct horse, found in central Alaska. Smiths Misc Col 61 no 2 : 18 pp, il (1913)

**13b** The extinct bisons of North America; with description of one new species, *Bison regius.* U S Nat Mus, Pr 46 : 161–200, il (1913)

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**15** Contributions to the knowledge of the mammals of the Pleistocene of North America. U S Nat Mus, Pr 48 : 515–575, il (1915) *Abst,* Wash Ac Sc, J 5 : 582–583 (1915)

**15a** A contribution to the knowledge of the extinct sirenian *Desmostylus hesperus* Marsh. U S Nat Mus, Pr 49 : 381–397, il (1915)

**16** Descriptions of two extinct mammals of the order Xenarthra from the Pleistocene of Texas. U S Nat Mus, Pr 51 : 107–123, il (1916)

**16a** Descriptions of some fossil vertebrates found in Texas. Tex Univ, B 1916 no 71 : 24 pp, il (1916)

**16b** Descriptions of some Floridian fossil vertebrates belonging mostly to the Pleistocene. Fla G S, An Rp 8 : 39–76, il (1916)

**16c** Investigation of the vertebrate paleontology of the Pleistocene epoch. Carnegie Inst Wash, Y Bk 14 : 386–387 (1916)

**17** Description of a new species of Mastodon, *Gomphotherium elegans,* from the Pleistocene of Kansas. U S Nat Mus, Pr 53 : 219–221, il (1917)

**17a** Description of a new species of extinct horse, *Equus lambei,* from the Pleistocene of Yukon Territory. U S Nat Mus, Pr 53 : 435–443, il (1917)

**17b** The Quaternary deposits at Vero, Fla., and the vertebrate remains contained therein. J G 25 : 52–55 (1917)

**17c** Vertebrata mostly from stratum No. 3 at Vero, Fla., together with descriptions of new species. Fla G S, An Rp 9 : 43–68, il (1917)

**17d** On the finding of supposed Pleistocene human remains at Vero, Fla. Wash Ac Sc, J 7 : 358–360 (1917)

**17e** On a collection of fossil vertebrates made by Dr. F. W. Cragin from the *Equus* beds of Kansas. Kans Univ Sc B 10 : 39–51, il (1917)

**17f** Investigation of the vertebrate paleontology of the Pleistocene epoch. Carnegie Inst Wash, Y Bk no 15 : 374–375 (1917)

**18** Further considerations of the occurrence of human remains in the Pleistocene deposits at Vero, Fla. Am Anthropologist n s 20 : 1–36 (1918)

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**18a** A review of some papers on fossil man at Vero, Fla. Science n s 47 : 370–371 (1918)

**18b** Doctor Aleš Hrdlička and the Vero [Fla.] man. Science n s 48 : 459–462 (1918)

**18c** [Report of work on Pleistocene Vertebrata]. Carnegie Inst Wash, Y Bk 16, 1917 : 331–332 (1918)

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**83** The igneous rocks of Kansas. Kans Ac Sc, Tr 8 : 14–18 (1883)

**83a** Fossil wood [Kansas]. Kans Ac Sc, Tr 8 : 20–22 (1883)

**85** Preliminary report on the geology of Norton Co., Kans. Kans Ac Sc, Tr 9 : 17–24, map (1885)

**85a** Notes on the fossil jaw of *Bison* from the Pliocene of Norton Co. [Kans.]. Kans Ac Sc, Tr 9 : 98 (1885)

**85b** In the Dakota [Kans.]. Kans Ac Sc, Tr 9 : 109–113 (1885)

**87** A geological section in Wilson Co., Kans. Kans Ac Sc, Tr 10 : 6–8 (1887)

**87a** Report on geology. Kans Ac Sc, Tr 10 : 21–22 (1887)

**87b** (and **Thompson,** A. H.) Historical sketch of geological work in the State of Kansas. Kans Ac Sc, Tr 10 : 45–52 (1887)

**87c** Natural gas in eastern Kansas. Kans Ac Sc, Tr 10 : 57–62 (1887) Kans St Bd Agr, Bien Rp 5 pt 2 : 198–208 (1887)

**87d** Note on a remarkable fossil. Kans Ac Sc, Tr 10 : 128–129, il (1887)

**89** Horizon of the Dakota lignite. Kans Ac Sc, Tr 11 : 5–8 (1889)

**89a** The geology of Kansas. Kans Ac Sc, Tr 11 : 35–37 (1889)

**89b** The Triassic rocks of Kansas (*abst*). Kans Ac Sc, Tr 11 : 38–39 (1889)

**89c** Recent discoveries of rock salt in Kansas (*abst*). Am As, Pr 37 : 184–185 (1889)

**89d** Northwest Kansas; its topography, geology, climate, and resources. Kans St. Bd Agr, Bien Rp 6 pt 2 : 92–116 (1889)

**89e** Salt; its discovery and manufacture in Kansas ... Kans St Bd Agr, Bien Rp 6 pt 2 : 192–204 (1889)

**90** A geological reconnaissance in southwestern Kansas. U S G S, B 57 : 49 pp, map (1890)

**90a** Report [of investigations of artesian water conditions of the Great Plains]. U S, 51st Cong 1st sess, S Ex Doc 222 : 37–47 (1890)

**90b** Notes on some Kansas salt marshes. Kans Ac Sc, Tr 12 : 97–100 (1890)

**90c** Notes on a Kansas salt mine. Am G 5 : 65–67 (1890)

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**90d** Artesian wells in Kansas and the causes of their flow. Am G 5 : 296–301 (1890)

**92** Sandstone dikes in northwestern Nebraska. G Soc Am, B 3 : 50–55 (1892)

**92a** A contribution to the geology of the Great Plains. G Soc Am, B 3 : 519–521 (1892)

**93** Artesian and underflow investigation between the ninety-seventh meridian and the foothills of the Rocky Mountains. U S, 52d Cong 1st sess, S Ex Doc 41 pt 3 : 7–39, map (1893)

**93a** Geology and mineral resources of Kansas. Kans St Bd Agr, Bien Rp 8 pt 2 : 99–162, map (1893)

**93b** President's address [the geology of the Great Plains]. Kans Ac Sc, Tr 13 : 3–6 (1893)

**93c** Notice on some new species of fossil cephalopods. Kans Ac Sc, Tr 13 : 37–47, il (1893)

**93d** Additional note on the Brenham meteorite. Kans Ac Sc, Tr 13 : 75 (1893)

**93e** Note on the occurrence of granite in a deep boring in eastern Kansas. Kans Ac Sc, Tr 13 : 75–76 (1893)

**93f** Some characteristics of the glaciated area of northeastern Kansas. Kans Ac Sc, Tr 13 : 104–106 (1893)

**95** Water resources of a portion of the Great Plains. U S G S, An Rp 16 pt 2 : 535–588, maps (1895)

**96** The geology of the Fort Riley Military Reservation and vicinity, Kans. U S G S, B 137 : 35 pp, map (1896)

**96a** On the eastern extension of the Cretaceous rocks in Kansas and the formation of certain sand hills. Kans Ac Sc, Tr 14 : 227–229 (1896)

**96b** The river counties of Kansas; some notes on their geology and mineral resources. Kans Ac Sc, Tr 14 : 230–260 (1896)

**96c** A bibliography of Kansas geology. Kans Ac Sc, Tr 14 : 261–278 (1896)

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**00** Records of post-Triassic changes in Kings Co., N. S. N S Inst Sc, Pr Tr 10 or (2) 3 : 287–302 (1900)

**02** The geological history of the Gaspereau Valley, N. S. N S Inst Sc, Pr Tr 10 or (2) 3 : 361–375 (1902)

**02a** Fossils, possibly Triassic, in glaciated fragments in the boulder clay of Kings Co., N. S. N S Inst Sc, Pr Tr 10 or (2) 3 : 376–378 (1902)

**03** Geology of the west coast of Vancouver Island. Can G S, Sum Rp 1902 (An Rp 15) : ▲ 76–92 (1903)

**05** Geology of part of the County of Ottawa [Que.]. Can G S, Sum Rp 1904 (An Rp 16) : ▲ 232–239 (1905)

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**06** [Report on the] geology of parts of the counties of Labelle and Wright, Quebec. Can G S, Sum Rp 1905 : 105–112 (1906)

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**43** On the rock salt and salines of the Holston [Va.]. Am J Sc 44 : 173–179 (1843)

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**86** The earthquake of August 31, 1886 [Charleston earthquake]. Science 8 : 224–226 map (1886)

**86a** The Charleston earthquake; some further observations. Science 8 : 246–248 (1886)

**86b** Earthquake sounds. Science 8 : 369–370 (1886)

**87** Professor Newberry on earthquakes. Science 9 : 18 (1887)

**87a** (with **Dutton,** C. E.) Abstract of the results of the investigation of the Charleston earthquake. Science 9 : 489–501 (1887)

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**56** Geological notes etc., on Nebraska. *In* Warren, G. K., Explorations in the Dacota country in the year 1855; U S, 34th Cong 1st sess, S Ex Doc 76 : 66–79 (1856)

**56a** (with **Meek,** F. B.) Descriptions of new species of Gastropoda from the Cretaceous formations of Nebraska Terr. Ac N Sc Phila, Pr 8, 63–69 (1856)

**56b** (with **Meek,** F. B.) Descriptions of new species of Gastropoda and Cephalopoda from the Cretaceous formations of Nebraska Terr. Ac N Sc Phila, Pr 8 : 70–72 (1856)

**56c** (with **Meek,** F. B.) Descriptions of twenty-eight new species of Acephala and one gastropod from the Cretaceous formations of Nebraska Terr. Ac N Sc Phila, Pr 8 : 81–87 (1856)

**56d** (with **Meek,** F. B.) Descriptions of new species of Acephala and Gastropoda, from the Tertiary formations of Nebraska Terr., with some general remarks on the geology of the country about the sources of the Missouri River. Ac N Sc Phila, Pr 8 : 111–126 (1856)

**56e** (with **Meek,** F. B.) Descriptions of new fossil species of Mollusca...; together with a complete catalogue of all the remains of Invertebrata hitherto described and identified from the Cretaceous and Tertiary formations [of Nebraska Terr.]. An N Sc Phila, Pr 8 : 265–286 (1856)

**57** ...geological structure of the country bordering on the Missouri River, from the mouth of the Platte River to Fort Benton, in lat. 47° 30′ N., long. 110° 30′ W. Ac N Sc Phila, Pr 1857 : 109–116, map

**57a** Notes on the geology of the Mauvaises Terres of White River, Nebraska Terr. Ac N Sc Phila, Pr. 1857 : 151–158

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**57b** (with **Meek, F. B.**) Descriptions of new species and genera of fossils, collected by Dr. F. V. Hayden in Nebraska Terr...; with some remarks on the Tertiary and Cretaceous formations of the Northwest... Ac N Sc Phila, Pr 1857: 117–148

**58** Explanations of a second edition of a geological map of Nebraska and Kansas, based upon information obtained in an expedition to the Black Hills... Ac N Sc Phila, Pr 1858: 139–158 [In part] Am J Sc (2) 26: 404–408 (1858)

**58a** (with **Meek, F. B.**) Fossils of Nebraska [Black Hills]. National Intelligencer March 16, 1858 [not seen]. Am J Sc (2) 25: 439–441 (1858)

**58b** (with **Meek, F. B.**) Remarks on the lower Cretaceous beds of Kansas and Nebraska, together with descriptions of some new species of Carboniferous fossils from the valley of Kansas River. Ac N Sc Phila, Pr 10: 256–266 (1858) Am J Sc (2) 27: 219–227, il (1859)

**58c** (with **Meek, F. B.**) On the probable existence of Permian rocks in Kansas Terr. Ac N Sc Phila, Pr 1858: 9–10

**58d** (with **Meek, F. B.**) Descriptions of new organic remains collected in Nebraska Terr... together with some remarks on the geology of the Black Hills and portions of the surrounding country. Ac N Sc (2) 27: 219–227, il (1859)

**59** Catalogue of the collections in geology and natural history obtained by the expedition under command of Lieut. G. K. Warren. *In* Warren, G. K., Preliminary account of explorations in Nebraska and Dakota in the years 1855–56–57; U S, War Dp, An Rp 1858 (U S, 35th Cong 2d sess, H Ex Doc 2): 673–705 (1859); Reprint: 59–125, Washington 1875

**59a** Geological sketch of the estuary and fresh water deposit of the Badlands of the Judith, with some remarks upon the surrounding formations. Am Ph Soc, Tr n s 11: 123–138, map (1859)

**59b** (with **Meek, F. B.**) On the so-called Triassic rocks of Kansas and Nebraska. Am J Sc (2) 27: 31–35 (1859)

**59c** (with **Meek, F. B.**) Geological explorations in Kansas Territory. Ac N Sc Phila, Pr 1859: 8–30. (In part) Am J Sc (2) 27: 424–432 (1859)

**60** Notes on the geology of Nebraska and Utah Territory. Am J Sc (2) 29: 433–434 (1860)

**60a** (with **Meek, F. B.**) On a new genus of patelliform shells from the Cretaceous rocks of Nebraska. Am J Sc (2) 29: 33–35 (1860)

**60b** (with **Meek, F. B.**) Descriptions of new organic remains from the Tertiary, Cretaceous, and Jurassic rocks of Nebraska. Ac N Sc Phila, Pr 1860: 175–185

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**61** Sketch of the geology of the country about the headwaters of the Missouri and Yellowstone rivers. Am J Sc (2) 31: 229–245 (1861) U S G Geog S Terr (Hayden), Prel Rp 1878: 21–29 (1878)

**61a** (with **Meek, F. B.**) Descriptions of new Lower Silurian (Primordial), Jurassic, Cretaceous, and Tertiary fossils, collected in Nebraska Terr..., with some remarks on the rocks from which they were obtained. Ac N Sc Phila, Pr 1861: 415–447

**62** On the geology and natural history of the upper Missouri. Am Ph Soc, Tr n s 12: 1–218, map (1863) Separate, 218 pp, map, Phila 1862

**62a** The Primordial sandstone of the Rocky Mountains in the northwestern territories of the United States. Am J Sc (2) 33: 68–79, il (1862) *Extr,* Can J n s 7: 149–151 (1862)

**62b** Some remarks in regard to the period of elevation of those ranges of the Rocky Mountains near the sources of the Missouri River and its tributaries. Am J Sc (2) 33: 305–313 (1862) U S G Geog S Terr (Hayden), Prel Rp 1878: 9–13 (1878)

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**64** (with **Meek, F. B.**) Descriptions of new organic remains from northeastern Kansas, indicating the existence of Permian rocks in that territory. Albany Inst, Tr 4: 73–88 (1864)

**65** (with **Meek, F. B.**) Paleontology of the upper Missouri; invertebrates. Smiths Contr Knowl 14 art 5 (172): 135 pp, il (1865)

**66** [On a visit to Pipestone quarry, Minn.] Am Ph Soc, Pr 10: 274–275 (1866)

**66a** Description of an extensive chalk deposit on the Missouri River. Am Ph Soc, Pr 10: 277 (1866)

**66b** On the geology of the Missouri Valley. Am Ph Soc, Pr 10: 292–296 (1866)

**66c** On the lignite beds on the upper tributaries of the Missouri [River]. Am Ph Soc, Pr 10: 300–307 (1866)

**66d** [On the Pipestone quarry of Dakota.] Ac N Sc Phila, Pr 1866: 291–292

**66e** [On the extensive chalk deposit of the Missouri River.] Ac N Sc Phila, Pr 1866: 314

**67** First annual report of the United States Geological Survey of the Territories, embracing Nebraska. U S, Gen Land Off, Rp 1867: 100–107, 124–177 (U S, 40th Cong 2d sess, H Ex Doc 1 v 3: 128–135, 152–205) (1867) Reprint: 5–64 (1873)

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**67a** Sketch of the geology of northeastern Dakota, with a notice of a short visit to the celebrated Pipestone quarry. Am J Sc (2) 43 : 15–22 (1867)

**67b** Remarks on the Cretaceous rocks of the West known as No. 1, or the Dakota group. Am J Sc (2) 43 : 171–179 (1867)

**67c** Notes on the geology of Kansas. Am J Sc (2) 44 : 32–40 (1867)

**67d** [On the Black Hills.] Am Ph Soc, Pr 10 : 322–326 (1867)

**68** Second annual report of the United States Geological Survey of the Territories, embracing Wyoming. U S, Gen Land Off, Rp 1868 : 111–120, 220–255 (U S, 40th Cong 3d sess, H Ex Doc 1 v 2) (1868) Reprint : 65–102 (1873)

**68a** Rocky Mountain coal beds. Am J Sc (2) 45 : 101–102 (1868)

**68b** Notes on the lignite deposits of the West. Am J Sc (2) 45 : 198–208 (1868)

**68c** Remarks on the geological formations along the eastern margins of the Rocky Mountains. Am J Sc (2) 45 : 322–326 (1868) U S G Geog S Terr (Hayden), Prel Rp 1878 : 13–16 (1878)

**68d** Remarks on the possibility of a workable bed of coal in Nebraska. Am J Sc (2) 45 : 326–330 (1868)

**69** Preliminary field report [third annual] of the United State Geological Survey of Colorado and New Mexico. 155 pp, Washington 1869 Reprint : 103–251 (1873)

**69a** Geological report of the exploration of the Yellowstone and Missouri rivers, under the direction of...W. F. Raynolds, 1859–60. 174 pp, map, Washington 1869 (U S, 40th Cong 2d sess, S Ex Doc 77)

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**69c** Notes on the geology of Wyoming and Colorado Territories. Am Ph Soc, Pr 10 : 463–478 ; 11 : 25–56 (1869)

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**70a** Sections of strata belonging to the "Bear River group" near Bear River City, Wyo. Am Ph Soc, Pr 11 : 420–425 (1870)

**71** Preliminary report [fourth annual] of the United States Geological Survey of Wyoming and portions of contiguous Territories (being a second annual report of progress). 511 pp, Washington 1871

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**72b** Final report of the United States Geological Survey of Nebraska and portions of the adjacent Territories... U S, 42d Cong 1st sess, H Ex Doc 19 : 264 pp, map (1872)

**72c** The hot springs and geysers of the Yellowstone and Firehole rivers. Am J Sc (3) 3 : 105–115, 161–176 (1872)

**72d** The Yellowstone National Park. Am J Sc (3) 3 : 294–297 (1872)

**72e** Die neu entdeckten Geyser-Gebiete am oberen Yellowstone und Madison River. Petermanns Mitt 18 : 241–253, 321–326 (1872)

**73** Sixth annual report of the United States Geological Survey of the Territories ... for the year 1872. 844 pp, maps, Washington 1873

**73a** First, second, and third annual reports of the United States Geological Survey of the Territories for the years 1867, 1868, and 1869 [Reprints]. 261 pp, Washington 1873

**74** [Seventh] annual report of the United States Geological and Geographical Survey of the Territories, embracing Colorado, being a report of progress of the exploration for the year 1873. 718 pp, maps, Washington 1874

**74a** [On the age of the lignitic group.] U S G Geog S Terr (Hayden), B [1] no 2 : 1–2 (1874)

**75** Note on some peculiar forms of erosion in eastern Colorado, with heliotype illustrations. U S G Geog S Terr (Hayden), B [1] no 3 (2) : 210–211 (1875)

**75a** Notes on the surface features of the Colorado or Front Range of the Rocky Mountains. U S G Geog S Terr (Hayden), B [1] no 4 (2) : 215–220 (1875)

**76** [Eighth] annual report of the United States Geological and Geographical Survey of the Territories, embracing Colorado and parts of adjacent territories, being a report of progress of the exploration for the year 1874. 515 pp, maps, Washington 1876

**76a** Notes on the lignitic group of eastern Colorado and portions of Wyoming. U S G Geog S Terr (Hayden), B [1] no 5 (2) : 401–411 (1876)

**76b** Notes descriptive of some geological sections of the country about the headwaters of the Missouri and Yellowstone rivers. U S G Geog S Terr (Hayden), B 2 : 197–209 (1876)

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**76d** On the ore-bearing rocks of Colorado. Am J Sc (3) 12 : 71 (1876)

**76e** Summary of the field work of the Hayden geological survey during the season of 1875. The Republic 6 : 149–160 (1876)

**77** Ninth annual report of the United States Geological and Geographical Survey of the Territories, embracing Colorado and parts of adjacent Territories, being a report of progress of the exploration for the year 1875. 827 pp, maps, Washington 1877

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**77b** Notes on some artesian borings along the line of the Union Pacific Railroad in Wyoming Territory. U S G Geog S Terr (Hayden), B 3 : 181–185 (1877)

**77c** (in charge) Geological and geographical atlas of Colorado and portions of adjacent territory. U S G Geog S Terr (Hayden). 1877, another ed 1881

**77d** Sketch of the origin and progress of the United States Geological and Geographical Survey of the Territories. 15 pp, Washington 1877

**77e** Explorations made under the direction of F. V. Hayden in 1876. Am J Sc (3) 13 : 68–74 (1877) The Republic 8 : 17–24 (1877)

**77f** Progress of the U. S. geological survey ... The Republic 8 : 217–226 (1877)

**78** Tenth annual report of the United States Geological and Geographical Survey of the Territories, embracing Colorado and parts of adjacent territories, being a report of progress of the exploration for the year 1876. 546 pp, maps, Washington 1878

**78a** Preliminary report of the field work of the U. S. Geological and Geographical Survey of the Territories for the season of 1878. 29 pp, Washington 1878

**78b** Letter ... transmitting report of Professor Hayden upon geological and geographical surveys. U S, 45th Cong 2d sess, H Ex Doc 81 : 22 pp, map (1878)

**78c** Summary of the field work of the United States Geological and Geographical Survey of the Territories. Am J Sc (3) 15 : 56–60 (1878)

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**78e** Discovery of recent glaciers in Wyoming. Am Nat 12 : 830–831 (1878)

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**78g** Glaciers in the Wind River Mountains [Wyo.]. Science News 1 : 20–21 (1878)

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**80** The great West ... 87 pp, Phila 1880

**80a** Twin Lakes and Teocalli Mountain, central Colorado, with remarks on the glacial phenomena of that region. Am Nat 14 : 858–862 (1880)

**83** Twelfth annual report of the United States Geological and Geographical Survey of the Territories; a report of progress of the exploration in Wyoming and Idaho for the year 1878. In two parts, 809, 503 pp, maps, Washington 1883.

**83a** General geologic map of the area explored and mapped by Dr. F. V. Hayden and the surveys under his charge 1869–1880. Scale 1 : 2 600 000. n d [1883?] [Also in U S G Geog S Terr (Hayden), 12th An Rp]

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**01** Ralph Dupuy Lacoe. Wyoming Hist G Soc, Pr 6 : 39–54, port (1901) Am G 28 : 335–344, port (1901)

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**20** Geological essays, or an inquiry into some of the geological phenomena to be found in various parts of America and elsewhere. 412 pp, Baltimore 1820 Rv by Silliman, B., Am J Sc, 3 : 47–57 (1821)

**22** Notice of a singular ore of cobalt and manganese [Maryland]. Am J Sc 4 : 283–284 (1822) *Transl. in* Struve, H von, Beiträge zur Mineralogie und Geologie des nördlichen Amerikas : 119–121, Hamburg 1822

**30** ... geology of the country near Bedford Springs in Pennsylvania, and the Bath or Berkeley Spring in Virginia. Am J Sc 19 : 97–104 (1830)

**33** Description of the Bare Hills near Baltimore. Am J Sc 24 : 349–360 (1833)

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**14** Geology of the St. John map area, N. B. Can G S, Sum Rp 1913 : 228–243 (1914)

**14a** Geology of the Wabana iron ore of Newfoundland (*abst*). G. Soc Am, B 25 : 74 (1914)

**15** Wabana iron ore of Newfoundland. Can G S, Mem 78 : 163 pp, map (1915)

**15a** St. John map area, N. B. Can G S, Sum Rp 1914 : 100–101 (1915); 1915 : 179 (1916)

**Hayes,** Albert Orion—Continued.

**16** Origin of the Wabana iron ore. Can M Inst, Tr 18 : 225–246, map [1916]

**17** Investigations in New Brunswick and Nova Scotia. Can G S, Sum Rp 1916 : 261–284, map (1917)

**18** Investigations in Nova Scotia. Can G S, Sum Rp 1917 pt F : 20–32 (1918)

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**42** (with **Teschemacher,** J. E.) On the identity of pyrochlore with the microlite of Professor Shepard. Am J Sc 43 : 33–35 (1842)

**44** Re-examination of microlite and pyrochlore. Am J Sc 46 : 158–166 (1844)

**45** On the Alabama meteoric iron. Am J Sc 48 : 147–156 (1845)

**51** [On crystallized quartz containing crystals of rutile from Waterbury, Vt.] Boston Soc N H, Pr 4 : 23–24 (1851)

**55** [On the underground water at Boston, Mass.] Boston Soc N H, Pr 5 : 191–194 (1855)

**55a** [On the so-called verd-antique marble from Roxbury, Vt.] Boston Soc N H, Pr 5 : 260–263, 339–341 (1855–6)

**56** On serpentine rock. Am J Sc (2) 21 : 382–385 (1856)

**56a** [On coal at the Albert mine in New Brunswick.] Boston Soc N H, Pr 5 : 306–307 (1856)

**56b** [On saline matter in rocks of eastern Massachusetts.] Boston Soc N H, Pr 6 : 30 (1856)

**57** [On the origin of the concretions called claystones (wtih discussion by Charles Stodder).] Boston Soc N H, Pr 6 : 134–139 (1857)

**57a** [On the cementing materials of conglomerates (particularly the Roxbury conglomerate) and sandstones (with discussion by C. T. Jackson).] Boston Soc N H, Pr 6 : 167–169 (1857)

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**61** On the occurrence of massive datolite in the mines of Lake Superior. Boston Soc N H, Pr 8 : 62–64 (1861)

**66** Description and analysis of a new kind of bitumen [Green River, Utah]. Boston Soc N H, Pr 10 : 306–307 (1866)

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**91** The overthrust faults of the southern Appalachians (with discussion by C. D. Walcott, W. M. Davis, and Bailey Willis). G Soc Am, B 2 : 141–154 (1891)

**92** Report on the geology of northeastern Alabama and adjacent portions of Georgia and Tennessee. Ala G S, B 4 : 85 pp, map, Montgomery 1892 *Abst,* J G 1 : 98–99 (1893)

**92a** An expedition through the Yukon district. Nat Geog Mag 4 : 117–162, map (1892) *Abst,* G Soc Am, B 3 : 495–496 (1892) ; Am G 9 : 216–217 (1892)

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**93** (with **Willis,** Bailey) Conditions of Appalachian faulting. Am J Sc (3) 46 : 257–268 (1893) *Abst,* J G 1 : 861 (1893)

**94** Ringgold atlas sheet [Ga.-Tenn.]. U S G S, G Atlas Ringgold fol (no 2) : 3 pp, maps (1894 ; prel ed 1892) *Abst,* J G 4 : 760–762 (1896)

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**94b** Chattanooga atlas sheet : description [Tenn.]. U S G S, G Atlas Chattanooga fol (no 6) : 3 pp, maps (1894 ; prel ed 1892) *Abst,* J G 764–766 (1896)

**94c** Description of the Sewanee sheet [Tenn.]. U S G S, G Atlas Sewanee fol (no 8) : 4 pp, maps (1894) *Abst,* J G 4 : 766–768 (1894)

**94d** Bauxite. U S G S, Min Res 1893 : 159–167 (1894)

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**94f** (and **Campbell,** M. R.) Geomorphology of the southern Appalachians. Nat Geog Mag 6 : 63–126, maps (1894)

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**95a** Description of the Cleveland sheet [Tenn.]. U S G S, G Atlas Cleveland fol (no. 20) : 4 pp, maps (1895)

**95b** Description of the Pikeville sheet [Tenn.]. U S G S, G Atlas Pikeville fol (no. 21) : 4 pp, maps (1895)

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**95e** The Tennessee phosphates. U S G S, An Rp 16 pt 4 : 610–630, map (1895)

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**95h** Eastern Kentucky ; its physiography and its people. Berea Q 1 : 1–8 (1895)

**95i** Notes on the geology of the Cartersville sheet, Ga. (*abst*). Science n s 1 : 668–669 (1895)

**96** Description of the Gadsden quadrangle [Ala.]. U S G S, G Atlas Gadsden fol (no 35) : 4 pp, maps (1896)

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**96b** The white phosphates of Tennessee. Am I M Eng, Tr 25 : 19–28, map (1896)

**96c** The Devonian formation of the southern Appalachians (*abst*). Am G 17 : 107 (1896) Science n s 3 : 56 (1896)

**97** Solution of silica under atmospheric conditions. G Soc Am, B 8 : 213–220 (1897) *Abst,* J G 5 : 319–321 (1897) ; Science n s 5 : 82–83 (1897)

**97a** The Yukon district. J Sch Geog 1 : 236–241, 269–274 (1897)

**97b** (and **Brooks,** A. H.) The crystalline and metamorphic rocks of northwest Georgia (*abst*). J G 5 : 321–322 (1897) Science n s 5 : 97 (1897)

**97c** The geological relations of some southern iron ores (*abst*). Science n s 5 : 558 (1897)

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**00c** Solution sinks in a quartzite formation [Coldwater Mountain, Ala.] (*abst*). Science n s 11 : 228–229 (1900)

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**01b** Tennessee white phosphate. U S G S, An Rp 21 pt 3 : 473–485 (1901)

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**01d** Geological relations of the iron ores in the Cartersville district, Ga. Am I M Eng, Tr 30 : 403–419, map (1901)

**02** Description of the Rome quadrangle [Ga.-Ala.]. U S G S, G Atlas Rome fol (no 78) : 6 pp, maps (1902)

**02a** The coal fields of the United States. U S G S, An Rp 22 pt 3 : 7–24, map (1902)

**02b** The southern Appalachian coal field. U S G S, An Rp 22 pt 3 : 227–263, maps (1902)

**02c** The asphalt deposits of Pike Co., Ark. Eng M J 74 : 782 (1902)

**02d** Some facts and theories bearing on the accumulation of petroleum (*abst*). Science n s 16 : 1028 (1902)

**03** (and **Ulrich,** E. O.) Description of the Columbia quadrangle [Tenn.]. U S G S, G Atlas Columbia fol (no 95) : 6 pp, maps (1903)

**03a** (and **Kennedy,** W.) Oil fields of the Texas-Louisiana Gulf Coastal Plain. U S G S, B 212 : 174 pp, maps (1903)

**03b** (with **Emmons,** S. F.) Contributions to economic geology, 1902. U S G S, B 213 : 449 pp (1903) ...1903 ; B 225 : 527 pp (1904) ...1904 ; B 260 : 620 pp (1905)

**03c** Contributions to economic geology, 1902 ; introduction. U S G S, B 213 : 9–14 (1903)

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**03l** Tennessee phosphates. *In* Handbook of Tennessee: 25–28, Nashville 1903 [not seen]

**04** Contributions to economic geology, 1903; introduction. U S G S, B 225: 11–17 (1904)

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**06** The relation of the federal government to the mining industry. Am M Cong, 8th An Sess, Papers and addresses: 46–59 (1906)

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**09a** The iron-ore supply of the United States. Am I M Eng, B 28: 373–379 (1909) M World 30: 875–876 (1909)

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**02b** Some Tertiary formations of southern California. Am G 29 : 349–372 (1902)

**02c** Boston Mountain [Ark.] physiography. J G 10 : 160–165 (1902)

**02d** Neocene deposits of the Klamath region, Cal. J G 10 : 377–392 (1902)

**02e** The significance of certain Cretaceous outliers in the Klamath region, Cal. Am J Sc (4) 14 : 33–37 (1902)

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**03b** The Sierran valleys of the Klamath region, Cal. J G 11 : 155–165 (1903)

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**93a** A new fungus from the Coal Measures [Tuscarawas Co., Ohio]. Am G 11 : 365–366, il ; 12 : 289–290 (1893)

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**06c** The Carolina tin deposits Eng Mag 32 : 10–20 (1906)

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**08d** Note on a tungsten-bearing vein near Raymond, Calif. U S G S, B 340 : 271 (1908)

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**10b** Gypsum deposits near Cane Springs, Kern Co., Cal. U S G S, B 430 : 417–418 (1910)

**10c** Mounds formed by mineral crystallization. M Sc Press 100 : 675 (1910) *Abst*, Science n s 31 : 758 (1910)

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**13d** (and **Hunt, W. F.**) Triplite from eastern Nevada. Am J Sc (4) 36 : 51–54 (1913) Wash Ac Sc, J 3 : 286 (1913)

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**13b** Manganese and manganiferous ores. U S G S, Min Res 1912 pt 1: 203–221 (1913); 1913 pt 1: 57–74; 1914 pt 1: 165–181; 1915 pt 1: 29–43; 1916 pt 1: 731–756 (1913–8)

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**14b** The Shoshone River section, Wyo. U S G S, B 541: 89–113 (1914)

**14c** (with **Pardee,** J. T.) Geology and mineral resources of the Sumpter quadrangle, Oreg. Oreg Bur Mines, Min Res Oreg 1, no 6: 3–128, map (1914)

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**78** Discovery of the Cleveland shale in Delaware Co., Ohio. Am J Sc (3) 16: 70–71 (1878)

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**85a** The Dakota group south of the Platte River in Nebraska (*abst*). Am As, Pr 34: 217–219 (1886) Science 6: 221 (1885)

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**87a** The Lincoln salt basin (*abst*). Am As, Pr 35: 219 (1887)

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**15a** Evaporation of potash brines. U S G S, P P 95: 65–72 (1915)

**16** Evaporation of brine from Searles Lake, Cal. U S G S, P P 98: 1–8 (1916) *Abst*, Wash Ac Sc, J 6: 360 (1916)

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**80** An account of the finding of a new meteorite in Cleberne Co., Ala. Am J Sc (3) 19: 370–371 (1880)

**80a** A new meteoric iron from North Carolina. Am J Sc (3) 20: 324–326 (1880)

**81** [On rare minerals of North Carolina.] *In* Genth, F. A., and Kerr, W. C., The minerals and mineral localities of North Carolina ...: 83–89 [2d ed: 89–93], Raleigh 1881

**81a** On the Whitfield Co., Ga., meteoric iron. Am J Sc (3) 21: 286–287 (1881)

**81b** Notes on the mineral localities in North Carolina. Am J Sc (3) 22: 21–25 (1881)

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**82b** A phenomenal find of fluid-bearing quartz crystals [Alexander Co., N. C.]. N Y Ac Sc, Tr 1 : 131–136 (1882)

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**84a** Tourmaline from Auburn, Me. Am J Sc (3) 27 : 154–155 (1884)

**85** Mineralogical notes. Am J Sc (3) 29 : 249–251 (1885)

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**86b** A new meteoric iron from Texas. Am J Sc (3) 32 : 304–306 (1886)

**86c** Recent discovery of emeralds and hiddenite in North Carolina. Am J Sc (3) 32 : 483–484 (1886)

**86d** Preliminary note on an iron meteorite from Maverick Co., Tex. N Y Ac Sc, Tr 5 : 231 (1886)

**86e** A recently discovered meteoric iron from Independence Co., Ark. Sch Mines Q 7 : 188–191 (1886)

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**87a** (and **Washington,** H. S.) Contributions to mineralogy. Am J Sc (3) 33 : 501–507 (1887)

**87b** On the iron meteorite which fell near Mazapil, Mexico ... N Y Ac Sc, An 4 : 45–65 (1887)

**87c** A notable discovery of precious stones in Alexander Co., N. C. N Y Ac Sc, Tr 6 : 2–4 (1887)

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**73** Report on a topographical survey of part of the Cumberland coal field, with notices of the coal seams and their relation to the iron deposits of the Cobequids [N. S.]. 68 pp, Halifax, N. S., 1873

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**75** Description of a new genus of tabulate coral [*Sphaerolites nicholsoni,* Dalhousie, N. B.] (*abst*). G Mag (2) 2 : 514–515 (1875)

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**78** Note on the occurrence near Toronto of boulders belonging to the Calciferous formation. Can J n s 15 : 644 (1878)

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**88a** On the history and characters of the genus *Septastraea* D'Orbigny (1849) and the identity of its type species with that of *Glyptastraea* Duncan (1887). G Soc London, Q J 44 : 200–227, il (1888)

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**17b** Geology and economic resources of Colchester and Macomb quadrangles. Ill G S, B 30: 75–109, map (1917)

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**68d** The geology of Vermont (*abst*). Am As, Pr 16 : 120–122 (1868)

**68e** Explanation of a geological map of Maine. Am As, Pr 16 : 123 (1868)

**68f** The distortion and metamorphosis of pebbles in conglomerates (*abst*). Am As, Pr 16 : 124–127 (1868) Am Nat 1 : 621 (1868) Can Nat n s 3 : 302 (1868)

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**70** Second annual report upon the geology and mineralogy of the State of New Hampshire. 37 pp, map, Manchester 1870

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**74f** Note upon the Cretaceous strata of Long Island. Am As, Pr 22 pt 2 : 131–132 (1874)

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**78d** Economic geology [of New Hampshire]. Geology of N H, pt V [vol 3] : 103 pp, map (1878)

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**82** The crystalline rocks of Virginia compared with those of New England. Am I M Eng, Tr 10 : 477–480 (1882) The Virginias 4 : 11–12 (1883)

**82a** On Flat Top coal field [W. Va.]. The Virginias 3 : 81 (1882)

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**83a** The glacial flood of the Connecticut River valley (*abst*). Am As, Pr 31 : 325–329 (1883)

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**84c** Identification of the Green Mountain gneisses in eastern New England (*abst*). Am As, Pr 33 : 396–397 (1885) Science 4 : 327 (1884)

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**85a** The crystalline rocks of Alabama. Am J Sc (3) 30 : 278–283 (1885)

**85b** The recent landslide in the White Mountains. Science 6 : 84–87 (1885)

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**89a** Conglomerates in New England gneisses. Am G 3 : 253–256 (1889)

**89b** The discovery of fossil tracks in the Triassic of York Co., Pa. Am As, Pr 37 : 186 (1889)

**90** The use of the terms Laurentian and Newark in geological treatises. Am G 5 : 197–202 (1890)

**90a** Significance of oval granitoid areas in the lower Laurentian (*abst*, with discussion by G. H. Williams). G Soc Am, B 1 : 557–558 (1890)

**90b** Wright's "Ice age in North America and its bearings on the antiquity of man." Bibliotheca Sacra 47 : 99–121 (1890)

**90c** Field studies of hornblende schist (*abst*). Am As, Pr 38 : 251 (1890)

**91** The Redonda phosphate (with discussion by N. H. Winchell). G Soc Am, B 2 : 6–9 (1891)

**92** Studies of the Connecticut valley glacier (with discussion). G Soc Am, B 4 : 3–7 (1892) *Abst,* Am G 10 : 193–194, 217–218 (1892)

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**92b** The Green Mountains' anticlinal. Science 20 : 328 (1892)

**93** Glaciation of the White Mountains, N. H. G Soc Am, B 5 : 35–37 (1893)

**93a** A single glacial epoch in New England. Am G 11 : 194–195 (1893)

**94** Ancient eruptive rocks in the White Mountains [N. H.] (*abst*). Am G 13 : 213 (1894)

**Hitchcock,** Charles Henry—Continued.

**95** The Connecticut sandstone group. Science n s 1 : 74–77 (1895)

**95a** Divisions of the ice age in the United States and Canada. Am G 15 : 330–335 (1895)

**95b** Edward Hitchcock. Am G 16 : 133–149, port. (1895)

**95c** High-level gravels in New England (*abst* with discussion by J. W. Spencer). G Soc Am, B 6 : 460–461 (1895) Am G 15 : 199 (1895) Science n s 1 : 60 (1895)

**95d** Champlain glacial epoch (*abst*). G Soc Am, B 7 : 2–4 (1895) Am G 16 : 235–236 (1895) Science n s 2 : 278 (1895) Ottawa Nat 9 : 151 (1895)

**95e** Gotham's cave; or fractured rocks in northern Vermont (*abst*). Am G 16 : 248 (1895) Am As, Pr 44 : 133 (1896)

**96** The geology of New Hampshire. J G 4 : 44–62 (1896)

**96a** Paleozoic terranes in the Connecticut Valley (*abst*). G Soc Am, B 7 : 510–512 (1896) Am G 17 : 105–107 (1896) Science n s 3 : 56 (1896)

**97** Sketch of W. W. Mather. Am G 19 : 1–15, port. (1897)

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**97b** Note on the stratigraphy of certain homogeneous rocks (*abst*). G Soc Am, B 8 : 389–390 (1897) Science n s 5 : 86 (1897)

**98** Recent progress in ichnology. U S G S, Mon 29 : 400–406 (1898)

**98a** The Hudson River lobe of the Laurentide ice sheet (*abst*). Am As, Pr 47 : 292 (1898) Am G 22 : 255 (1898) Science n s 8 : 467 (1898)

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**00** William Lowthian Green and his theory of the evolution of the earth's features. Am G 25 : 1–10, port (1900)

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**01a** Tuff cone at Diamond Head Hawaiian Islands (*abst*). G Soc Am, B 12 : 462 (1901) Science n s 13 : 98 (1901)

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**42** On the phenomena of drift in this country (*abst* with discussion). Am J Sc 43 : 151–154 (1842) As Am G, Rp : 45–49 (1843)

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**44a** Geological map of Massachusetts. Scale, 5 miles to 1 inch or 1 : 316 800. Inset on Topographical map of Massachusetts [Simeon Borden], Boston 1844

**44b** The trap tufa or volcanic grit of the valley of the Connecticut River (*abst*). Am J Sc 47 : 103–104 (1844)

**44c** Dispersion of blocks of stone at the drift period in Berkshire County, Mass. (*abst*). Am J Sc 47 : 132–133 (1844)

**44d** Report on ichnolithology or fossil footmarks, with description of several new species and the coprolites of birds, and of a supposed footmark from the valley of Hudson River. Am J Sc 47 : 292–322, il ; (*abst*) 113–114 (1844)

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**93e** Notes on the geology of the new railroad cut at Arrochar [Staten Island, N. Y.]. N Sc As Staten Island, Pr 3 : 45–47 (1893)

**93f** [Triassic sandstone with fossils in drift material on Staten Island, N. Y.] N Sc As Staten Island, Pr 3 : 50 (1893)

**93g** A recent find of drift fossils at Prince's Bay [Staten Island, N. Y.]. N Sc As Staten Island, Pr 4 : 2 (1893)

**93h** Mineralogical notes [Staten Island, N. Y.]. N Sc As Staten Island, Pr 4 : 6–7 (1893)

**94** Additions to the paleobotany of the Cretaceous formation on Long Island. Torrey Bot Club, B 21 : 49–65, il (1894)

**94a** Fossil salvinias, including description of a new species. Torrey Bot Club, B 21 : 253–257, il (1894)

**94b** A new fossil *Nelumbo* from the Laramie group at Florence, Colo. Torrey Bot Club, B 21 : 307–310 (1894)

**Hollick**, Charles Arthur—Continued.

**94c** Winglike appendages on the petioles of *Liriophyllum populoides* Lesq. and *Liriodendron* Newb., with description of the latter. Torrey Bot Club, B 21 : 467–471, il (1894)

**94d** [On the relationship of *Spiraxis*.] N Y Ac Sc, Tr 13 : 118–119 (1894)

**94e** Some further notes on the geology of the north shore of Long Island [N. Y.] N Y Ac Sc, Tr 13 : 122–130 (1894)

**94f** Dislocations in certain portions of the Atlantic Coastal Plain strata and their probable causes. N Y Ac Sc, Tr 14 : 8–20 (1894) *Abst*, with discussion by N. S. Shaler, G Soc Am, B 6 : 5–7 (1894); Am G 14 : 197–198 (1894)

**94g** A recent discovery of fossil leaves at Arrochar [Staten Island, N. Y.]. N Sc As Staten Island, Pr 4 : 11 (1894)

**94h** Plant remains in limonite from the moraine at Clifton and their significance [Staten Island, N. Y.]. N Sc As Staten Island, Pr 4 : 37–38 (1894)

**94i** Recent investigations in the Cretaceous formation on Long Island, N. Y. (*abst*). Am As, Pr 42 : 175 (1894)

**94j** Notes on the northward extension of the Yellow gravel in New Jersey, Staten Island, Long Island, and eastward (*abst*). Am As, Pr 42 : 175–176 (1894)

**94k** A new fossil *Liriodendron* from the Laramie at Walsenberg, Colorado, and its significance (*abst*). Am G 14 : 203 (1894) Am As, Pr 43 : 225 (1895)

**94l** (with **Kemp**, J. F.) The granite at Mounts Adam and Eve, Warwick, Orange Co., N. Y., and its contact phenomena. N Y Ac Sc, An 7 : 638–650 (1894)

**95** Descriptions of new leaves from the Cretaceous (Dakota group) of Kansas. Torrey Bot Club, B 22 : 225–228, il (1895)

**95a** John Strong Newberry. U S G S, Mon 26 : 15–20 (1895)

**95b** Further discovery of drift fossils at Princes Bay [Staten Island, N. Y.]. N Sc As Staten Island, Pr 5 : 3 (1895)

**95c** Identification of fossil leaves. Bot Gaz 20 : 332 (1895)

**95d** Marthas Vineyard Cretaceous plants (*abst*). G Soc Am, B 7 : 12–14 (1895) Am G 16 : 239 (1895) Science n s 2 : 281 (1895)

**95e** Recent discovery of the occurrence of marine Cretaceous strata on Long Island (*abst*). Am As, Pr 44 : 133–135 (1896) Am G 16 : 248 (1895) Science n s 2 : 400 (1895)

**96** New species of leguminous pods from the Yellow gravel at Bridgeton, N. J. Torrey Bot Club, B 23 : 46–49, il (1896)

**96a** The geology of Block Island. Science n s 4 : 571–572 (1896)

**96b** Geological notes, Long Island and Nantucket. N Y Ac Sc, Tr 15 : 3–10 (1896)

**Hollick**, Charles Arthur—Continued.

**96c** Geological notes, Long Island and Block Island. N Y Ac Sc, Tr 16 : 9–18 (1896) *Abst*, Science n s 4 : 695–696 (1896)

**96d** Iron ore from the vicinity of New Springville [Staten Island, N. Y.]. N Sc As Staten Island, Pr 5 : 12 (1896)

**96e** A recent examination of the serpentine area of Staten Island [N. Y.]. N Sc As Staten Island, Pr 5 : 93–94 (1896)

**96f** Recent additions to the Cretaceous fossil flora of Staten Island [N. Y.]. N Sc As Staten Island, Pr 6 : 2 (1896)

**96g** The Cretaceous clay marl exposure at Cliffwood, N. J. (*abst*). Am G 18 : 230 (1896) Science n s 4 : 386 (1896)

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**97c** The Cretaceous clay marl exposure at Cliffwood, N. J. N Y Ac Sc, Tr 16 : 124–136, il (1897)

**97d** A new investigation of man's antiquity at Trenton, [N. J.]. Science n s 6 : 675–682 (1897)

**97e** Monocotyledonous plant remains in limonite [Staten Island, N. Y.]. N Sc As Staten Island, Pr 6 : 12–13 (1897)

**97f** The geological section at Cliffwood, N. J. (*abst*). Science n s 5 : 239 (1897)

**98** Notes on Block Island. N Y Ac Sc, An 11 : 55–72 (1898)

**98a** Additions to the paleobotany of the Cretaceous formation on Staten Island (N. Y.). N Y Ac Sc, An 11 : 415–430, il (1898)

**98b** Exposure of Cretaceous material on Fingerboard road [Staten Island, N. Y.]. N Sc As Staten Island, Pr 6 : 55–56 (1898)

**98c** Notes on the glacial phenomena of Staten Island (*abst*). Science n s 8 : 840 (1898)

**98d** Further notes on Block Island [N. Y.]; geology and botany (*abst*). Am G 21 : 200–201 (1898)

**98e** (and **Britton**, E. G.) A description of a new fossil moss from Seattle, Wash. (*abst*). Science n s 8 : 83–84 (1898)

**98f** The age of the Amboy clay series as indicated by its flora (*abst*). Am As, Pr 47 : 292–293 (1898) Science n s 8 : 467–468 (1898) Am G 22 : 255–256 (1898)

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**99d** Section E—Geology and geography of the American Association for the Advancement of Science [Columbus, Ohio, meeting, 1899] Science n s 10 : 487–491 (1899)

**99e** Note on deep wells, at Prince Bay and Huguenot [N. Y.]. N Sc As Staten Island, Pr 7 : 19 (1899)

**99f** Notes on the geology and botany of the Fox Hills golf links [Staten Island, N. Y.]. N Sc As Staten Island, Pr 7 : 20–22 (1899)

**99g** A Quaternary lake deposit in the Moravian cemetery [Staten Island, N. Y.]. N Sc As Staten Island, Pr 7 : 24–25 (1899)

**99h** A reconnaissance of the Elizabeth Islands, Mass. (*abst*). Science n s 9 : 818–819 (1899)

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**00a** Drift and kame deposits on the line of the South Side boulevard [Staten Island, N. Y.]. N Sc As Staten Island, Pr 7 : 37 (1900)

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**01a** Discovery of a mastodon's tooth and the remains of a boreal vegetation in a swamp on Staten Island, N. Y. N Y Ac Sc, An 14 : 67–68 (1901)

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**02a** Fossil ferns from the Laramie group of Colorado. Torreya 2 : 145–148, il (1902)

**02b** Notes on recent exposures in the soapstone rock [Staten Island, N. Y.]. N Sc As Staten Island, Pr 8 : 41–42 (1902)

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**03c** Two additions to our list of drift fossils [Staten Island, N. Y.]. N Sc As Staten Island, Pr 8 : 53 (1903)

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**04a** Some recently discovered facts in regard to Silver Lake [Staten Island, N. Y.]. N Sc As Staten Island, Pr 9 : 11–13 (1904)

**04b** Geological notes [Staten Island, N. Y.]. N Sc As Staten Island, Pr 9 : 25 (1904)

**04c** A recent discovery of amber and other fossil plant remains at Kreischerville [Staten Island, N. Y.]. N Sc As Staten Island, Pr 9 : 31–32 (1904)

**04d** A canoe trip down the Yukon River from Dawson to Anvik (*abst*). N Y Ac Sc, An 16 : 333–335 (1905) Science n s 19 : 859 (1904) Am G 33 : 399 (1904)

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**05b** The preservation of plants by geologic processes. N Y Bot Garden J 6 : 115–118, il (1905)

**05c** Paleobotanical notes. N Y Bot Garden, J 6 : 148–149 (1905)

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**06b** A newly discovered outcrop of Triassic rock on Staten Island [N. Y.] Staten Island As, Pr 1 : 16–17 (1906)

**06c** A fossil forest fire [charred wood at Kreischerville, Staten Island, N. Y.] Staten Island As, Pr 1 : 21–23 (1906)

**06d** Insect borings in Cretaceous lignite from Kreischerville. Staten Island As, Pr 1 : 23–24 (1906)

**06e** A soapstone drift boulder containing magnetite. Staten Island As, Pr 1 : 31–32 (1906)

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**07a** Recent identifications of Cretaceous gymnosperms from Kreischerville, N. Y. (*abst*). Science n s 25 : 292–293 (1907)

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**08a** Discovery of lignitic and bituminous coal at Kreischerville. Staten Island As, Pr 2 : 13 (1908)

**08b** Chemical analysis of Cretaceous amber from Kreischerville [Staten Island N. Y.]. Staten Island As, Pr 2 : 34 (1908)

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**10b** A new fossil fucoid [*Thamnocladus passifrons,* Devonian (Catskill group), Franklin, Delaware Co., N. Y.]. Torrey Bot Club, B 37 : 305–307, il (1910)

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**11a** Notes on specimens recently collected in the serpentine area of Staten Island. Staten Island As, Pr 3 : 31–33 (1911)

**11b** Results of a preliminary study of the so-called Kenai flora of Alaska. Am J Sc (4) 31 : 327–330 (1911)

**11c** Discussion of the Cretaceous and Tertiary floras of Alaska (*abst*). Wash Ac Sc, J 1 : 142 (1911)

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**15b** (with **Britton,** E. G.) A new American fossil moss [*Plagiopodopsis scudderi* from Florissant, Colo.]. Torrey Bot Club, B 42 : 9–10, il (1915)

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**06h** Soufrière of Saint Lucia (*abst*). G Soc Am, B 16 : 569–570 (1906)

**06i** Boiling lake of Dominica (*abst*). G Soc Am, B 16 : 570–571 (1906)

**06j** Geological notes on the western Sierra Madre of Chihuahua, Mexico (*abst*). Science n s 23 : 467 (1906)

**06k** Notes on the geology of the Guaynopita, Chihuahua, Mexico, mining district (*abst*). Science n s 24 : 369 (1906); Am As, Pr 56–57 : 270 (1907)

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**57k** Origin of magnesian rocks (*abst*). Can Nat 2 : 258 (1857)

**57l** On some euphotides and other felspathic rocks (*abst*). Edinb N Ph J n s 5 : 366–367 (1857)

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**57m** On the serpentines of the Green Mountains and some of their associates (*abst*). Edinb N Ph J n s 5 : 367 (1857)

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**83g** The United States Geological Survey. Sch Mines Q 4: 284–298 (1883)

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**84b** Metamorphism in the Huronian of the Northwest (*abst*). Science 4: 327 (1884)

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**85c** The copper-bearing rocks of Lake Superior. Am J Sc (3) 29: 258–259 (1885)

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**41c** [On the construction of geological maps] (*abst*). Am J Sc 41 : 186 (1841) As Am G, Rp : 38 (1843)

**42** Report of the State geologist [1842]. *In* N H, H R, J session 1842 : 239–244 (1842)

**43** Description of the tin veins of Jackson, N. H. As Am G, Rp : 316–321 (1843)

**43a** Remarks on zinc, lead, and copper ores of New Hampshire. As Am G, Rp : 321–322 (1843)

**43b** [Metamorphic rocks of Pequawket Mountain, N. H. (*abst*)]. Am J Sc 45 : 145–146 (1843)

**43c** [On drift] ; with discussion by J. N. Nicollet, E. Hitchcock, and W. C. Redfield. Am J Sc 45 : 320–323 (1843)

**43d** [Ores of New Hampshire.] Boston Soc N H, Pr 1 : 90 (1843)

**43e** [On the cause of changes of the surface of the earth.] Boston Soc N H, Pr 1 : 123 (1843)

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**48b** [Notes on the Lake Superior region.] Boston Soc N H, Pr 3:76-77, 228 (1848)

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**49c** [On fissures in pudding stone of Roxbury, Mass. (with discussion by H. D. Rogers).] Boston Soc N H, Pr 3:127 (1849)

**50** Remarks on the geology, mineralogy, and mines of Lake Superior. Am As, Pr 2:283-287 (1850) Soc G France, B (2) 7:667-673 (1850)

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**50d** [On asphaltum recently discovered in New Brunswick.] Boston Soc N H, Pr 3:279-280 (1850)

**50e** [On tellurium ore from the gold mine of Whitehall, Va.] Boston Soc N H, Pr 3:297-299 (1850)

**50f** [On Tertiary fossils from Marshfield, Mass.] Boston Soc N H, Pr 3:323-324, 329 (1850)

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**50h** [On the age of the sandstones of the United States.] Boston Soc N H, Pr 3:335-339 (1850)

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**51e** Discovery of fossil fish in the coal formation of New Brunswick. Am J Sc (2) 12:281-282 (1851)

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**52** [On fossil rain drops.] Boston Soc N H, Pr 4 : 131–132 (1852)

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**54** Observations sur quelques mines des États-Unis et sur le grès rouge du lac Supérieur. Ac Sc Paris, C R 39 : 803–807 (1854)

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**54b** [The Deep River coal region, N. C.] Boston Soc N H, Pr 4 : 397–399 (1854)

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**54d** [On a new mine of gold, silver, lead, and copper, recently opened at Bridgewater, Vt.] Boston Soc N H, Pr 5 : 62 (1854)

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**55c** Geology of parts of New Brunswick and Nova Scotia. Boston Soc N H, Pr 5 : 242–250 (1855) M Mag 6 : 117–123 (1856)

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**56b** [On the formation of stalactites.] Boston Soc N H, Pr 5 : 335 (1856)

**56c** [On the bituminous-coal formation of Elk Co., Pa.] Boston Soc N H, Pr 6 : 16–18 (1856)

**56d** [On the geology of Alger's beryl hill, Grafton, N. H.] Boston Soc N H, Pr 6 : 23 (1856)

**56e** [On the trap dikes and altered rocks of Cohasset, Mass., and on trap rocks in general.] Boston Soc N H, Pr 6 : 23–24 (1856)

**56f** Ridgway Farm & Loan Co.'s property [Elk Co., Pa.]; geological report. M Mag 7 : 174–184 (1856)

**56g** [On the coal formation of Deep River, N. C.] Boston Soc N H, Pr 6 : 30–32 (1856) M Mag 7 : 373–375 (1856)

**56h** Chemical analysis of a variety of agalmatolite [Deep River, N. C.]. Boston Soc N H, Pr 6 : 32–33 (1856) M Mag 7 : 375–376 (1856)

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**57** Report on the coal fields on Deep River in North Carolina; the Fooshee and Street estates. M Mag 9 : 548–550 (1857)

**57a** [On a landslide near Portland, Me.] Boston Soc N H, Pr 6 : 133–134 (1857)

**57b** [On the cementing material of sandstones and conglomerates.] Boston Soc N H, Pr 6 : 168–169 (1857)

**57c** [On the so-called copper mine at Elk Run, Fauquier Co., Va.] Boston Soc N H, Pr 6 : 183 (1857)

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**57e** Maryland marbles and iron ores. Boston Soc N H, Pr 6 : 243–245 (1857)

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**59d** [On the theory of metamorphism, with particular reference to anthracite.] Boston Soc N H, Pr 7 : 30–31 (1859)

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**59f** [On the agency of thermal waters in the formation of minerals of trap rocks.] Boston Soc N H, Pr 7 : 45–47 (1859)

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**59h** (and **Blake,** John H.) [Report on the frozen well in Brandon, Vt.] Boston Soc N H, Pr 7 : 81–84 (1859)

**59i** Specular iron ore from Phillipsburg, N. J. Boston Soc N H, Pr 7 : 136 (1859)

**59j** [On the origin of marl in peat bogs.] Boston Soc N H, Pr 7 : 151 (1859)

**59k** [Crystals of green feldspar, Mount Desert, Me.] Boston Soc N H, Pr 7 : 160 (1859)

**59l** [On a meteorite in Oregon.] Boston Soc N H, Pr 7 : 174, 175–6, 191, 279 (1859–60)

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**61a** [On a fossiliferous boulder from Saco River, Me.] Boston Soc N H, Pr 7 : 409 (1861)

**61b** [On coal from the Gulf of Chiriqui, Panama.] Boston Soc N H, Pr 7 : 423, 428 (1861)

**61c** (and others) [Discussion on the Primordial fauna.] Boston Soc N H, Pr 8 : 58 (1861)

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**62a** [On gold in Nova Scotia (with discussion by Jules Marcou).] Boston Soc N H, Pr 9 : 47 (1862)

**62b** [On metamorphic action in conglomerate.] Boston Soc N H, Pr 9 : 57 (1862)

**62c** (and **Blake, J. H.,** and **Rogers,** W. B.) ... the frozen well of Brandon, Vt. Boston Soc N H, Pr 9 : 72–81 (1862)

**63** [Sketch of the copper-bearing belt of Canada.] Boston Soc N H, Pr 9 : 202–203 (1863)

**63a** [On deposits of galena at Dubuque and Galena.] Boston Soc N H, Pr 9 : 222–224 (1863)

**63b** Meteoric iron from Dakota Territory. Am J Sc (2) 36 : 259–261 (1863)

**64** Observations sur les gîtes metallifères de quelques parties de l'Amérique septentrionale et sur un nouvel aérolithe. Ac Sc Paris, C R 58 : 240–242 (1864)

**65** Notice of the death of Francis Alger of Boston. Boston Soc N H, Pr 10 : 2–6 (1865)

**65a** [Iron ore from Staten Island, N. Y.] Boston Soc N H, Pr 10 : 72 (1865)

**65b** On the discovery of emery in Chester, Mass. Boston Soc N H, Pr 10 : 84–90 (1865) Am J Sc (2) 39 : 87–90 (1865)

**65c** Sur les mines d'or et d'argent de la Californie. Ac Sc Paris, C R 61 : 947–950 (1865)

**65d** Nouveaux détails sur les mines d'argent du Nevada. Ac Sc Paris, C R 61 : 998–999 (1865)

**66** [On calcite from Martinsburg, N. Y.] Boston Soc N H, Pr 10 : 97 (1866)

**66a** [Account of a journey through California and Nevada.] Boston Soc N H, Pr 10 : 224–229 (1866)

**66b** [Notes on glacial phenomena.] Boston Soc N H, Pr 10 : 245–246 (1866)

**66c** [Notes on the geology and mineral resources of California.] Boston Soc N H, Pr 10 : 262–263 (1866)

**66d** [On polishing of rocks of Smoky Valley, Nev., by wind-blown sand.] Boston Soc N H, Pr 10 : 303–304 (1866)

**66e** Chemical analyses of minerals associated with the emery of Chester, Mass. Boston Soc N H, Pr 10 : 320–322 (1866)

**66f** Analyses of some minerals from the emery mine of Chester, Mass. Am J Sc (2) 42 : 107–108 (1866)

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**66g** On the discovery of corundum at the emery mine, Chester, Mass. Am J Sc (2) 42 : 421 (1866)

**66h** [On a meteorite from the Dakotah Indian country.] Am Ac, Pr 6 : 166–167 (1866)

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**67a** [On the absence of meteorites in sedimentary strata.] Boston Soc N H, Pr 11 : 82–83 (1867)

**67b** [On the gold regions of Vermont.] Boston Soc N H, Pr 11 : 243–244 (1867)

**68** [On fossil or submarine guano from Charleston, S. C.] Boston Soc N H, Pr 11 : 392–393 (1868)

**68a** [Beds of apatite in Canada West.] Boston Soc N H, Pr 12 : 88–90 (1868)

**69** Tin ore in Winslow, Maine. Boston Soc N H, Pr 12 : 267 (1869)

**69a** Sur les mines de cuivre du lac Supérieur et sur un nouveau gisement d'étain dans l'État du Maine. Ac Sc Paris, C R 69 : 1082–1083 (1869)

**71** [On meteorites.] Boston Soc N H, Pr 13 : 412 (1871)

**71a** Glacier theory of drift [with discussion by J. B. Perry and Charles Pickering]. Boston Soc N H, Pr 14 : 65–75 (1871)

**72** Report on Brandon frozen well [Vt.]. Boston Soc N H, Pr 14 : 306–308 (1872)

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**89f** Lower Carbonic Gastropoda from Burlington, Iowa. Ac N Sc Phila, Pr 1889 : 284–298

**89g** The American species of *Polyphemopsis*. Ac N Sc Phila, Pr 1889 : 299–302

**89h** *Sphaerodoma;* a genus of fossil gastropods. Ac N Sc Phila, Pr 1889 : 303–309

**89i** Note on the distribution of *Helicina occulta*. Nautilus 3 : 18–19 (1889)

**90** Certain forms of *Straparollus* from southeastern Iowa. Am G 5 : 193–197, il (1890)

**90a** Generic relations of *Platyceras* and *Capulus*. Am G 6 : 6–9 (1890)

**90b** Review of the progress of American invertebrate paleontology for the year 1889. Am Nat 24 : 131–138 (1890)

**90c** Genesis of the Actinocrinidae. Am Nat 24 : 243–254 (1890)

**90d** The naticoid genus *Strophostylus*. Am Nat 24 : 1111–1117, il (1890)

**90e** Synopsis of American Carbonic Calyptraeidae. Ac N Sc Phila, Pr 1890 : 150–181, il

**90f** Preservation of color in fossil shells. Nautilus 4 : 30–31 (1890)

**90g** Discovery of fossils in the limestones of Frederick Co., Md. Johns Hopkins Univ Circ 10 : 32 (1890)

**91** Stratigraphy of the Carboniferous in central Iowa. G Soc Am, B 2 : 277–292 (1891) *Abst*, Iowa Ac Sc, Pr 1 pt 2 : 27–28 (1892)

**Keyes,** Charles Rollin—Continued.

**91a** A geological section across the Piedmont Plateau in Maryland. G Soc Am, B 2 : 319–322 (1891)

**91b** Remarks on the perisomic plates of the crinoids. Am J Sc (3) 41 : 247–248 (1891)

**91c** The Redrock sandstone of Marion Co., Iowa. Am J Sc (3) 41 : 273–276 (1891) *Abst,* Iowa Ac Sc, Pr 1 pt 2 : 26–27 (1892)

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**92d** A remarkable fauna at the base of the Burlington limestone in northeastern Missouri. Am J Sc (3) 44 : 447–452 (1892)

**92e** "Nickel ore" from Iowa. Eng M J 54 : 634 (1892)

**92f** The occurrence of natural gas in Iowa and its probable future. U S Dp Agr, Weather Bur, Mo Rv Iowa Weather and Crop Service 3 no 12 : 3–4 (1892)

**92g** Age of certain sandstones near Iowa City [Iowa]. Iowa Ac Sc, Pr 1 pt 2 : 26 (1892)

**92h** Eastern extension of the Cretaceous in Iowa. Iowa Ac Sc, Pr 1 pt 2 : 21 (1892)

**92i** Contribution to the fauna of the lower Coal Measures of central Iowa (*abst*). Iowa Ac Sc, Pr 1 pt 2 : 22–23 (1892)

**92j** A new *Conocardium* from the Iowa Devonian. Iowa Ac Sc, Pr 1 pt 2 : 23–24 (1892)

**92k** Preliminary note on the sedentary habits of *Platyceras.* Iowa Ac Sc, Pr 1 pt 2 : 24 (1892)

**92l** Evolution of *Strophostylus.* Iowa Ac Sc, Pr 1 pt 2 : 25–26 (1892)

**92m** (and **Call,** R. E.) On a Quaternary section eight miles southeast of Des Moines, Iowa. Iowa Ac Sc, Pr 1 pt 2 : 30 (1892)

**93** Report [of assistant State geologist]. Iowa G S, An Rp 1892 : 7–9 (1893) ... 3 : 29–37 (1895) ... 4 : 27–28 (1895)

**93a** Geological formations of Iowa. Iowa G S 1, An Rp 1892 : 11–144, map (1893)

**Keyes,** Charles Rollin—Continued.

**93b** Annotated catalogue of minerals. Iowa G S 1, An Rp 1892 : 181–196 (1893)

**93c** Bibliography of Iowa geology. Iowa G S 1, An Rp 1892 : 209–464 (1893)

**93d** Some Maryland granites and their origin. G Soc Am, B 4 : 299–304 (1893)

**93e** Epidote as a primary component of eruptive rocks. G Soc Am, B 4 : 305–312 (1893)

**93f** A new locality for millerite [Keokuk, Iowa]. Am G 11 : 126 (1893)

**93g** The unconformity of the Coal Measures and the St. Louis limestone in Iowa. Am G 12 : 99–102 (1893)

**93h** An old volcanic eruption in Iowa. Science 21 : 132 (1893)

**93i** Sketch of the coal deposits of Iowa. U S G S, Min Res 1892 : 398–404 (1893)

**93j** Natural gas and oil in Iowa. Iowa Ac Sc, Pr 1 pt 3 : 15–18 (1893)

**93k** Iowa mineralogical notes. Iowa Ac Sc, Pr 1 pt 3 : 18–22 (1893)

**93l** Surface disintegration of granitic masses. Iowa Ac Sc, Pr 1 pt 3 : 22–24 (1893)

**93m** Some American eruptive granites. Iowa Ac Sc, Pr 1 pt 3 : 24–26 (1893)

**93n** The Iowa coal beds. U S Dp Agr, Weather Bur, Mo Rv Iowa Weather and Crop Service 4 no 1 : 3–5 (1893)

**93o** An Iowa volcano. U S Dp Agr. Weather Bur, Mo Rv Iowa Weather and Crop Service 4 no 1 : 5–6 (1893)

**93p** Iowa's gypsum deposits. U S Dp Agr, Weather Bur, Mo Rv Iowa Weather and Crop Service 4 no 3 : 2–4 (1893)

**94** Coal deposits of Iowa. Iowa G S 2 : 536 pp, map (1894)

**94a** Geological map of Iowa. An Iowa (3) 1 : 294–297, map (1894)

**94b** A bibliography of North American paleontology, 1888–1892. U S G S, B 121 : 251 pp (1894)

**94c** Paleontology of Missouri, part I. Mo G S 4 : 271 pp, il, Jefferson City, 1894

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**94e** Crustal adjustment in the upper Mississippi Valley. G Soc Am, B 5 : 231–242 (1894) *Abst,* Am G 13 : 210–211 (1894)

**94f** The nature of coal horizons. J G 2 : 178–186 (1894)

**94g** Origin of anthracite. Am G 13 : 411–415 (1894)

**94h** The Coal Measures of Iowa. Eng M J 57 : 269–270, 295–297, 317–318 (1894) Review, Am G 13 : 353–354 (1894)

**94i** Cretaceous formations of northwestern Iowa (*abst*). Iowa Ac Sc, Pr 1 pt 4 : 24–25 (1894)

**94j** Derivation of the Unione fauna of the Northwest. Iowa Ac Sc, Pr 1 pt 4 : 25–29 (1894)

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**94k** Process of formation of certain quartzites (*abst*). Iowa Ac Sc, Pr 1 pt 4: 29–31 (1894)

**94l** A stratigraphic catalogue of Missouri fossils. Jefferson City 1894 [not seen] *Reprinted in* Mo G S, 4: 241–264 (1894)

**94m** What the Iowa Geological Survey has been doing. U S Dp Agr, Weather Bur, Mo Rv Iowa Weather and Crop Service 5 no 1: 4–7 (1894)

**94n** The geological mapping of Iowa. U S Dp Agr, Weather Bur, Mo Rv Iowa Weather and Crop Service 5 no 2: 4–6 (1894)

**95** Work and scope of the geological survey. Iowa G S 3: 45–98, map (1895)

**95a** Glacial scorings in Iowa. Iowa G S 3: 147–165 (1895)

**95b** Gypsum deposits of Iowa. Iowa G S 3: 257–304, map (1895)

**95c** Geology of Lee Co. Iowa G S 3: 305–407, map (1895)

**95d** Geology of Des Moines Co. Iowa G S 3: 409–492, map (1895)

**95e** Biennial report of the State geologist... 60 pp, Jefferson City 1895 Biennial report... 63 pp, maps, Jefferson City 1897

**95f** Organization and results of a State geological survey. Mo G S, 8: 13–79 (1895)

**95g** Characteristics of Ozark Mountains. Mo G S 8: 317–352 (1895)

**95h** A report on Mine la Motte sheet, including portions of Madison, St. Francois, and Ste. Genevieve cos. Mo G S 9, Sheet Rp no 4: 132 pp, map [under separate cover] Jefferson City 1895 [Archean, by C. R. Keyes and E. Haworth: 24–44]

**95i** Origin and relations of central Maryland granites. U S G S, An Rp 15: 685–740, map (1895)

**95j** Stratigraphy of the Kansas Coal Measures. Am J Sc (3) 50: 239–243 (1895)

**95k** The Cambro-Silurian question in Missouri and Arkansas. J G 3: 519–526 (1895)

**95l** Acidic eruptives of northeastern Maryland. Am G 15: 39–46 (1895)

**95m** A hypsometric map of Missouri. Am G 15: 314–317, map (1895)

**95n** Superior Mississippian in western Missouri and Arkansas. Am G 16: 86–91 (1895)

**95o** Granite rocks of Missouri. Eng M J 60: 516–517 (1895)

**95p** Secular decay of granitic rocks. Iowa Ac Sc, Pr 2: 27–31 (1895)

**95q** Synopsis of American Paleozoic echinoids. Iowa Ac Sc, Pr 2: 178–194, il (1895)

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**95r** Opinions concerning the age of the Sioux quartzite (*abst*). Iowa Ac Sc, Pr 2: 218–222 (1895)

**95s** Methods of determining the natural resources of a region. U S Dp Agr, Weather Bur, Mo Rv Iowa Weather and Crop Service 6 no 3: 5–7 (1895)

**96** Areal geology of Missouri. Mo G S 9: 11–16 (1896)

**96a** Bibliography of Missouri geology. Mo G S 10: 219–523 (1896)

**96b** The geological occurrence of clays. Mo G S 11: 35–48, map (1896)

**96c** Geographic relations of the granites and porphyries in the eastern part of the Ozarks. G Soc Am, B 7: 363–376, map (1896) *Abst*, Am G 17: 91–92 (1896); J G 4: 375–377 (1896)

**96d** Biographical sketch of Charles Wachsmuth. Am G 17: 131–136, port. (1896)

**96e** Thickness of the Paleozoic rocks in the Mississippi basin. Am G 17: 169–173 (1896)

**96f** Serial nomenclature of the Carboniferous. Am G 18: 22–28 (1896)

**96g** Orotaxis, a method of geologic correlation. Am G 18: 289–302 (1896)

**96h** The Bethany limestone of the western interior coal fields. Am J Sc (4) 2: 221–225 (1896)

**96i** Ueber das Carbon des Mississippithales. N Jb 1896, I: 96–100

**96j** Missouri building and ornamental stones. Stone 12: 432–436, 546–557; 13: 30–32 (1896) *Abst*, Eng M J 62: 199–201 (1896)

**96k** Central Maryland granites. Stone 13: 421–428, 527–531; 14: 20–24, 126–129, 226–228 (1896–7)

**96l** A gigantic orthoceratite from the American Carboniferous. Science n s 3: 94–95 (1896)

**96m** Iowa gypsum. Mineral Industry 4: 379–386 (1896)

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**96o** Note on the nature of cone-in-cone. Iowa Ac Sc, Pr 3: 75–76 (1896)

**96p** Two remarkable cephalopods from the upper Paleozoic. Iowa Ac Sc, Pr 3: 76–78, il (1896)

**96q** Structure of *Uintacrinus*. Am Nat 30: 819–821, il (1896)

**97** List of Carboniferous fossils from Des Moines. Iowa G S 7: 330–335 (1897)

**97a** Dual character of the Kinderhook fauna. Am G 20: 167–176 (1897)

**97b** Relations of the Devonian and Carboniferous in the upper Mississippi Valley. Ac Sc St L, Tr 7: 357–369 (1897)

**97c** A new method of synchronizing strata. Science n s 6: 655–656 (1897)

**Keyes**, Charles Rollin—Continued.

**97d** Memorial of Charles Wachsmuth. Iowa Ac Sc, Pr **4** : 13–16, port. (1897)

**97e** Stages of the Des Moines, or chief coal-bearing series of Kansas and southwest Missouri and their equivalents in Iowa. Iowa Ac Sc, Pr **4** : 22–25 (1897)

**97f** (and **Rowley,** R. R.) Vertical range of fossils at Louisiana [Mo.]. Iowa Ac Sc, Pr **4** : 26–40 (1897)

**97g** Distribution and character of Missouri clays. Mineral Industry 1896, **5** : 127–137 (1897)

**97h** The geological surveys of Iowa. An Iowa (3) **3** : 111–123 (1897)

**97i** The physical nature of the problem of general geological correlation (*abst*). J G **5** : 110–111 (1897)

**98** The use of local names in geology. J G **6** : 161–170 (1898)

**98a** Probable stratigraphical equivalents of the Coal Measures of Arkansas. J G **6** : 356–365 (1898)

**98b** The genetic classification of geological phenomena. J G **6** : 809–815 (1898)

**98c** Use of the term Augusta in geology. Am G **21** : 229–235 (1898)

**98d** Elston Holmes Lonsdale [memorial]. Am G **21** : 264–265 (1898)

**98e** Carboniferous formations of southwestern Iowa. Am G **21** : 346–350 (1898)

**98f** Remarks on the classification of the Mississippian series. Am G **22** : 108–113 (1898)

**98g** The principal Missourian section (*abst*). Am G **22** : 251 (1898) Science n s **8** : 464 (1898)

**98h** Eolian origin of loess. Am J Sc (4) **6** : 299–304 (1898) Soc Belge G, B **12** : Tr 14–21 (1901)

**98i** Modern stratigraphical nomenclature. Science n s **7** : 571–572 (1898)

**98j** The myth of the Ozark Isle. Science n s **7** : 588–589 (1898)

**98k** Structure of the coal deposits of the trans-Mississippian field. Eng M J **65** : 253–254, 280–281 (1898)

**98l** Geographic development of the Crimea. Iowa Ac Sc, Pr **5** : 52–54 (1898)

**98m** Carboniferous formations of the Ozark region. Iowa Ac Sc, Pr **5** : 55–58 (1898)

**98n** Some geological formations of the Cap-au-Gres uplift [Ill.]. Iowa Ac Sc, Pr **5** : 58–63 (1898)

**99** American homotaxial equivalents of the original Permian. J G **7** : 321–341 (1899)

**99a** The Missourian series of the Carboniferous. Am G **23** : 298–316 (1899)

**99b** On stratification planes. Am G **24** : 294–300 (1899)

**99c** On the definition of geological terranes. Science n s **10** : 456–458 (1899)

**99d** Some physical aspects of general geological correlation. Iowa Ac Sc, Pr **6** : 131–154 (1899)

**Keyes**, Charles Rollin—Continued.

**00** Kinderhook stratigraphy. J G **8** : 315–321 (1900)

**00a** The causes of ore deposits. Am G **25** : 323–326 (1900)

**00b** Correlative relations of certain subdivisions of the Coal Measures of Kansas. Am G **25** : 347–353 (1900)

**00c** Certain faunal aspects of the original Kinderhook. Am G **26** : 315–321 (1900)

**00d** Systematic arrangement of ore deposits on a geological basis. Science n s **11** : 631–632 (1900)

**00e** Coal floras of the Mississippi Valley. Science n s **11** : 898–900 (1900)

**00f** Initiation of new elements in fossil faunas. Science n s **12** : 146 (1900)

**00g** The geological position of trans-Mississippian coals. Eng M J **69** : 528–529 (1900)

**00h** Formational synonymy of the Coal Measures of the western interior basin. Iowa Ac Sc, Pr **7** : 82–105, map (1900)

**00i** Genesis of normal compound and normal horizontal faulting. Iowa Ac Sc, Pr **7** : 112–113 (1900)

**00j** An Iowa scientist and his work [Frank Leverett]. Annals of Iowa (3) **4** : 383–392, port (1900)

**00k** Bearing of ore genesis on classification of ore deposits. Mining and Metallurgical J **22** : 272–273 (1900) [not seen]

**01** Note on the correlation of the Clarinda well section with the schematic section of the Carboniferous. Iowa G S **11** : 461–463 (1901)

**01a** A depositional measure of unconformity [Carboniferous, Mississippi Valley]. G Soc Am, B **12** : 173–196 (1901) *Abst*, Science n s **13** : 135–136 (1901)

**01b** Composite genesis of the Arkansas Valley through the Ozark highlands. J G **9** : 486–490 (1901)

**01c** Ore formation on the hypothesis of concentration through surface decomposition. Am G **27** : 355–362 (1901)

**01d** Nomenclature of the Cambrian formations of the St. Francois Mountains [Mo.]. Am G **28** : 51–53 (1901)

**01e** A schematic standard for the American Carboniferous Am G **28** : 299–305 (1901)

**01f** Time values of provincial Carboniferous terranes. Am J Sc (4) **12** : 305–309 (1901)

**01g** Origin and classification of ore deposits. Am I M Eng, Tr **30** : 323–356 (1901) Summary, with title, Some modern aspects of a practical classification of ore deposits, Eng M J **69** : 771–772 (1900) *Abst*, Mining **5** : 176–179 (1900)

**01h** On a crinoidal horizon in the upper Carboniferous. Science n s **13** : 915–916 (1901)

**01i** Zone of maximum richness in ore bodies. Science n s **14** : 577–578 (1901)

**Keyes,** Charles Rollin—Continued.

**01j** Derivation of the terrestrial spheroid from the rhombic dodecahedron. J G 9 : 244–249 (1901)

**01k** Horizons of Arkansas and Indian Territory coals compared with those of other trans-Mississippian coals. Eng M J 71 : 692–693 (1901)

**01l** The stratigraphical location of named trans-Mississippian coals. Eng M J 72 : 198 (1901)

**01m** Contiguity of ore deposits of different generic relationships. Eng M J 72 : 597–598 (1901)

**01n** Depositional equivalent of hiatus at base of our Coal Measures; and the Arkansan series, a new terrane of the Carboniferous in the western interior basin. Iowa Ac Sc, Pr 8 : 119–128 (1901)

**01o** Names of coals west of the Mississippi River. Iowa Ac Sc, Pr 8 : 128–137 (1901)

**01p** Geology in the twentieth century. The Arena 26 : 21–33 (1901)

**02** Devonian interval in Missouri. G Soc Am B 13 : 267–292 (1902)

**02a** Cartographic representation of geological formations. J G 10 : 691–699 (1902)

**02b** Determination of the Cambrian age of the magnesian limestones of Missouri. Am G 29 : 384–387 (1902)

**02c** Geological age of certain gypsum deposits. Am G 30 : 99–102 (1902)

**02d** Diverse origins and diverse times of formation of the lead and zinc deposits of the Mississippi Valley. Am I M Eng, Tr 31 : 603–611 (1902) M Metal 24 : 715–717 (1901) *Abst,* Mining 8 : 149–150 (1901)

**02e** The origin of ore deposits (discussion) Am I M Eng, Tr 31 : 942–944, 962–966 (1902)

**02f** Character and stratigraphical peculiarities of the southwestern Iowa coal fields. Eng M J 73 : 661 (1902)

**02g** Magmatic differentiation of rocks. Science n s 15 : 32–33 (1902)

**02h** A Devonian hiatus in the continental interior, its character and depositional equivalents. Iowa Ac Sc, Pr 9 : 105–112 (1902)

**03** Some recent aspects of the Permian question in America. Am G 32 : 218–223 (1903)

**03a** Geological structure of New Mexican bolson plains. Am J Sc (4) 15 : 207–210 (1903)

**03b** Ephemeral lakes in arid regions. Am J Sc (4) 16 : 377–378 (1903)

**03c** A remarkable silver pipe [central New Mexico]. Eng M J 76 : 805 (1903)

**03d** Geology of the Apache Canyon placers [south central New Mexico]. Eng M J 76 : 966–967 (1903)

**Keyes,** Charles Rollin—Continued.

**03e** Significance of the occurrence of minute quantities of metalliferous minerals in rocks. Iowa Ac Sc, Pr 10 : 99–103 (1903)

**03f** Genesis of certain cherts. Iowa Ac Sc, Pr 10 : 103–105 (1903)

**03g** Comparative values of different methods of geologic correlation in the Mississippi basin. Iowa Ac Sc, Pr 10 : 105–107 (1903)

**03h** Geological formations of New Mexico. *In* Report of the Governor of New Mexico to the Secretary of the Interior, 1903 : 337–341, Washington 1903

**04** Notes on block mountains in New Mexico. Am G 33 : 19–23 (1904)

**04a** Bolson plains and the conditions of their existence. Am G 34 : 160–164 (1904)

**04b** Uncomformity of the Cretaceous on older rocks in central New Mexico. Am J Sc (4) 18 : 360–362 (1904)

**04c** Iron deposits of the Chupadera Mesa [N. Mex.]. Eng M J 78 : 632 (1904)

**04d** The Hagan coal field [Sandoval Co., N. Mex.]. Eng M J 78 : 670–671 (1904)

**04e** Remarkable occurrence of aurichalcite. Iowa Ac Sc, Pr 11 : 253 (1904)

**04f** Certain basin features of the high plateau region of southwestern United States (*abst*). Iowa Ac Sc, Pr 11 : 254–257 (1904)

**04g** Note on the Carboniferous faunas of Mississippi Valley in the Rocky Mountain region. Iowa Ac Sc, Pr 11 : 258–259 (1904)

**05** Geology and underground water conditions of the Jornada del Muerto, N. Mex. U S G S, W-S P 123 : 42 pp, map (1905)

**05a** Structures of basin ranges. J G 13 : 63–70 (1905)

**05b** The fundamental complex beyond the southern end of the Rocky Mountains. Am G 36 : 112–122 (1905)

**05c** The Jurassic horizon around the southern end of the Rocky Mountains. Am G 36 : 289–292 (1905)

**05d** Triassic system in New Mexico. Am J Sc (4) 20 : 423–429 (1905)

**05e** Zinc carbonate ores of the Magdalen Mountains [N. Mex.]. M Mag 12 : 109–114 (1905)

**05f** Ore deposits of the Sierra de los Caballos [south central N. Mex.]. Eng M J 80 : 149–151 (1905)

**05g** Bisection of mountain blocks in the Great Basin region (*abst*). Iowa Ac Sc, Pr 12 : 165–167 (1905)

**05h** Geological structure of the Jornada del Muerto and adjoining bolson plains [N. Mex.]. Iowa Ac Sc, Pr 12 : 167–169 (1905)

**05i** Northward extension of the Lake Valley limestone [N. Mex.]. Iowa Ac Sc, Pr 12 : 169–171 (1905)

**06** [Notes on the classification of American Carboniferous deposits]. J G 14 : 71–76 (1906)

**Keyes,** Charles Rollin—Continued.

**06a** Carboniferous formations of New Mexico. J G 14 : 147–154 (1906)

**06b** Orotaxial significance of certain unconformities. Am J Sc (4) 21 : 296–300 (1906)

**06c** The Dakotan series of northern New Mexico. Am J Sc (4) 22 : 124–128 (1906)

**06d** Geological section of New Mexico. Science n s 23 : 921–922 (1906)

**06e** Use of the term Permian in American geology. Science n s 24 : 181–182 (1906)

**06f** Carboniferous coal measures in the Southwest. Eng M J 81 : 1129 (1906)

**06g** Physiography of New Mexico. J Geog 5 : 251–256 (1906)

**06h** Lime Creek fauna of Iowa in southwestern United States and northern Mexican region. Iowa Ac Sc, Pr 13 : 197–198 (1906)

**06i** Alternation of fossil faunas. Iowa Ac Sc, Pr 13 : 199–201 (1906)

**07** Volcanic craters in the Southwest. G Soc Am, B 17 : 721–723 (1907)

**07a** Cerargyritic ores : their genesis and geology. Ec G 2 : 774–780 (1907)

**07b** Aggraded terraces of the Rio Grande. Am J Sc (4) 24 : 467–472 (1907)

**07c** Physiographic significance of the Mesa de Maya [Colo.]. Iowa Ac Sc, Pr 14 : 221–222 (1907)

**07d** Tertiary terranes of New Mexico. Iowa Ac Sc, Pr 14 : 223–228 (1907) *Abst,* G Soc Am, B 17 : 725 (1907)

**07e** Volcanic phenomena about Citlaltepetl and Popocateptl (*abst*). Iowa Ac Sc, Pr 14 : 229–230 (1907)

**07f** Mescal Canyon coal field, New Mexico. Eng M J 83 : 957 (1907)

**07g** Preglacial river channels of central Iowa. An Iowa (3) 8 : 13–17 (1907)

**08** Genesis of the Lake Valley, N. Mex., silver deposits. Am I M Eng, B 19 : 1–31, map (1908) ; Tr 39 : 139–169 (1909)

**08a** Rock-floor of intermont plains of the arid region. G Soc Am, B 19 : 63–92 (1908)

**08b** Geotectonics of the Estancia Plains [N. Mex.]. J G 16 : 434–451 (1908)

**08c** Arid monadnocks. J Geog 7 : 30–33 (1908)

**08d** Geographic distribution of lead and zinc deposits of the Mississippi Valley. Eng M J 86 : 1004–1005 (1908)

**08e** Eolian origin of certain lake basins of the Mexican tableland. Iowa Ac Sc, Pr 15 : 137–141 (1908)

**08f** Stratigraphic position of western red beds. Iowa Ac Sc, Pr 15 : 143–144 (1908)

**08g** Some relations of the older and younger tectonics of the Great Basin region (*abst*). Iowa Ac Sc, Pr 15 : 145–146 (1908)

**09** Lineaments of the desert. Pop Sc Mo 74 : 19–30 (1909)

**09a** Geologic processes and geographic products of the arid region (*abst*). G Soc Am, B 19 : 570–575 (1909)

**09b** Erosional origin of the Great Basin ranges. J G 17 : 31–37 (1909)

**09c** Ozark lead and zinc deposits, their genesis, localization, and migration. Am I M Eng, B 26 : 119–166 (1909) ; Tr 40 : 184–231 (1910) M World 30 : 431–433, 481–485, 543–546 (1909)

**09d** Garnet contact deposits of copper and the depths at which they are formed. Ec G 4 : 365–372 (1909) M World 31 : 465–466 (1909)

**09e** Base-level of eolian erosion. J G 17 : 659–663 (1909)

**09f** Borax deposits of the United States. Am I M Eng, B 34 : 867–903 (1909) ; Tr 40 : 674–710 (1910) Eng M J 88 : 826–827 (1909)

**09g** Locus of vadose ore deposition. Eng M J 87 : 857–858 (1909)

**09h** Migrations of the Joplin zinc belt. Eng M J 87 : 1049 (1909)

**09i** Differential effects of eolian erosion upon rock-belts of varying induration (*abst*). Science n s 29 : 752–753 (1909)

**09j** Locus of maximum lateral deflation in desert ranges (*abst*). Science n s 29 : 753 (1909)

**09k** Significance of thrust planes in the Great Basin ranges. Iowa Ac Sc, Pr 16 : 151–152 (1909) *Abst,* Science n s 29 : 982 (1909)

**09l** Orotaxial correlation of geologic terranes and diastrophism (*abst*). Science n s 29 : 982 (1909)

**09m** Carbonic column of Rio Grande region. Iowa Ac Sc, Pr 16 : 159–163 (1909) *Abst,* Science n s 29 : 982 (1909)

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**54b** The coal lands of the Clinton County Coal Company of Pennsylvania. M Mag 3 : 513–520 (1854)

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**58a** On geological maps. M Mag 11 : 106–112 (1858)

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**07a** The skull of *Paleorhinus*, a Wyoming phytosaur. J G 15 : 121–151, il (1907)

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**50b** [Descriptions of mammalian remains from Missouri Terr.] Ac N Sc Phila, Pr 5 : 121–122, 170–171 (1850)

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**51e** [Descriptions of vertebrate fossils from the green sand of New Jersey.] Ac N Sc Phila, Pr 5 : 329–330 (1851)

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**53d** [On *Ursus amplidens* from Natchez, Miss.] Ac N Sc Phila, Pr 6 : 303 (1853)

**53e** [Observations on extinct Cetacea.] Ac N Sc Phila, Pr 6 : 377–378 (1853)

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**54c** [On *Dinictis felina* from Nebraska.] Ac N Sc Phila, Pr 7 : 127 (1854)

**54d** Synopsis of extinct Mammalia, the remains of which have been discovered in the Eocene formations of Nebraska. Ac N Sc Phila, Pr 7 : 156–157 (1854)

**54e** Description of a fossil apparently indicating an extinct species of the camel tribe. Ac N Sc Phila, Pr 7 : 172–173 (1854)

**54f** Notice of some fossil bones discovered ... in the banks of the Ohio River, Indiana. Ac N Sc Phila, Pr 7 : 199–201 (1854)

**54g** Remarks on the question of the identity of *Bootherium cavifrons* with *Ovibos moschatus* or *O. maximus.* Ac N Sc Phila, Pr 7 : 209–210 (1854)

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**56** Descriptions of some remains of fishes from the Carboniferous and Devonian formations of the United States. Ac N Sc Phila, J (2) 3 : 159–165, il (1856)

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**56b** Descriptions of two ichthyodorulites. Ac N Sc Phila, Pr 8 : 11–12 (1856) Am J Sc (2) 21 : 421–422 (1856)

**56c** Notices of some remains of extinct Mammalia, recently discovered by Dr. F. V. Hayden in the bedlands of Nebraska. Ac N Sc Phila, Pr 8 : 59 (1856) Am J Sc (2) 21 : 422–423 (1856)

**56d** Notices of remains of extinct reptiles and fishes, discovered by Dr. F. V. Hayden in the badlands of the Judith River, Nebraska Terr. Ac N Sc Phila, Pr 8 : 72–73 (1856) Am J Sc (2) 22 : 118–120 (1856)

**56e** Notices of remains of extinct Mammalia discovered by Dr. F. V. Hayden, in Nebraska Terr. Ac N Sc Phila, Pr 8 : 88–90 (1856)

**56f** Notice of the remains of a species of seal, from the post-Pliocene deposit of the Ottawa River. Ac N Sc Phila, Pr 8 : 90–91, il (1856) Can Nat 1 : 238, il (1856)

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**56k** Notices of remains of extinct vertebrated animals discovered by Prof. E. Emmons [in North Carolina]. Ac N Sc Phila, Pr 8 : 255–256 (1856) Am J Sc (2) 23 : 271–272 (1857)

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**56n** Remarks on certain extinct species of fishes. Ac N Sc Phila, Pr 8 : 301–302 (1856)

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**56p** Notices of extinct Vertebrata discovered by Dr. F. V. Hayden, during the expedition to the Sioux country... Ac N Sc Phila, Pr 8 : 311–312 (1856)

**57** List of extinct Vertebrata, the remains of which have been discovered in the region of the Missouri River; with remarks on their geological age. Ac N Sc Phila, Pr 1857 : 89–91

**57a** [On fossils from Phoenixville, Pa.] Ac N Sc Phila, Pr 1857 : 149–150

**57b** Notices of some remains of extinct fishes. Ac N Sc Phila, Pr 1857 : 167–168

**57c** Rectification of the references of certain of the extinct mammalian genera of Nebraska. Ac N Sc Phila, Pr 1857 : 175–176

**57d** [On *Mosasaurus*.] Ac N Sc Phila, Pr 1857 : 176

**57e** Notice of remains of the walrus discovered on the coast of the United States. Am Ph Soc, Tr n s 11 : 83–86, il (1857)

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**57h** Observations on the extinct peccary of North America ... Am Ph Soc, Tr n s 11 : 97–105, il (1857)

**57i** Remarks on the structure of the feet of *Megalonyx*. Am Ph Soc, Tr n s 11 : 107–108, il (1857)

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**58a** [Remarks on fossil Mammalia from Nebraska.] Ac N Sc Phila, Pr 1858 : 7

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**58b** [On mastodon remains from Nebraska.] Ac N Sc Phila, Pr 1858 : 10

**58c** [On Mammalia from Niobrara Valley, Nebr.] Ac N Sc Phila, Pr 1858 : 11

**58d** [On *Mastodon longirostris* and *Tapirus mastodontoides*.] Ac N Sc Phila, Pr 1858 : 12

**58e** Notice of remains of extinct Vertebrata, from the valley of the Niobrara River, collected during the exploring expedition of 1857, in Nebraska ... Ac N Sc Phila, Pr 1858 : 20–29

**58f** [On *Procamelus* from the Niobrara valley, Nebr.] Ac N Sc Phila, Pr 1858 : 89

**58g** *Hadrosaurus foulkii*, a new saurian from the Cretaceous of New Jersey ... Ac N Sc Phila, Pr 1858 : 215–218 Am J Sc (2) 37 : 266–270 (1858)

**59** [On fish remains from the Carboniferous of Kansas.] Ac N Sc Phila, Pr 1859 : 3

**59a** [Observations on *Mastodon* from Honduras and on *Mosasaurus*, with synonymy.] Ac N Sc Phila, Pr 1859 : 91–92

**59b** [On fossils from Phoenixville, Chester Co., Pa.] Ac N Sc Phila, Pr 1859 : 110

**59c** [On fish remains from Bethany, Va.] Ac N Sc Phila, Pr 1859 : 110

**59d** [On mammalian remains from Claiborne Co., Miss.] Ac N Sc Phila, Pr 1859 : 111

**59e** [On vertebrate remains from Chatham Co., N. C.] Ac N Sc Phila, Pr 1859 : 162

**59f** Extinct Vertebrata from the Judith River and great lignite formations of Nebraska. Am Ph Soc, Tr n s 11 : 139–154, il (1859)

**59g** [On the remains of reindeer found at Sing Sing, N. Y., and Vincentown, N. J.] Ac N Sc Phila, Pr 1859 : 194

**59h** On the geology and the remains of some extinct Vertebrata in the Territory of Nebraska. Am Ph Soc, Pr 7 : 10–11 (1859)

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**60b** [On dicotyles from Gibson Co., Ind.] Ac N Sc Phila, Pr 1860 : 416

**60c** [On fossil teeth from Washington Co., Tex.] Ac N Sc Phila, Pr 1860 : 416

**62** Observations upon the mammalian remains found in the crevices of the lead-bearing rocks at Galena, Ill. *In* Hall, James, and Whitney, J. D., Report of a geological survey of the State of Wisconsin vol. I : 424 (1862)

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**65b** [On bones from a guano deposit on the Island of Orchilla, W. I.] Ac N Sc Phila, Pr 1865 : 181–182

**65c** [On the species of *Rhinoceros.*] Ac N Sc Phila, Pr 1865 : 176–177

**65d** [On bones and teeth of horses from California and Oregon.] Ac N Sc Phila, Pr 1865 : 94

**66** [On a phalanx of an extinct reptile from Columbus, Miss.] Ac N Sc Phila, Pr 1866 : 9

**66a** [On the remains of birds.] Ac N Sc Phila, Pr 1866 : 237

**66b** [On fossil bones from Mauvaises Terres, White River, Nebr. (*Drepanodon* or *Machairodus occidentalis*).] Ac N Sc Phila, Pr 1866 : 345

**67** [On a skull of *Bison antiquus* from California.] Ac N Sc Phila, Pr 1867 : 85

**67a** [Remarks on a fossil skull of *Geomys bursarius* from the loess of Nebraska.] Ac N Sc Phila, Pr 1867 : 97

**67b** [Remarks on a skull of *Castoroides ohioensis* from Charleston, Ill.] Ac N Sc Phila, Pr 1867 : 97–98

**68** Notice of some vertebrate remains from Harden Co., Tex. Ac N Sc Phila, Pr 1868 : 174–176

**68a** Indication of an *Elotherium* in California. Ac N Sc Phila, Pr 1868 : 177

**68b** Notice of some reptilian remains from Nevada. Ac N Sc Phila, Pr 1868 : 177–178

**68c** Notice of some vertebrate remains from the West Indian Islands (Cienfuegos, Cuba]. Ac N Sc Phila, Pr 1868 : 178–180

**68d** Notice of some remains of horses. Ac N Sc Phila, Pr 1868 : 195

**68e** Notice of some extinct cetaceans. Ac N Sc Phila, Pr 1868 : 196–197

**68f** Remarks on a jaw fragment of *Megalosaurus*. Ac N Sc Phila, Pr 1868 : 197–200

**68g** Remarks on *Conosaurus* of Gibbes. Ac N Sc Phila, Pr 1868 : 200–202

**68h** Notice of American species of *Ptychodus*. Ac N Sc Phila, Pr 1868 : 205–208

**68i** Notice of some remains of extinct pachyderms. Ac N Sc Phila, Pr 1868 : 230–233

**68j** Notice of some remains of extinct Insectivora from Dakota. Ac N Sc Phila, Pr 1868 : 315–316

**69** On the extinct Mammalia of Dakota and Nebraska ... together with a synopsis of the mammalian remains of North America. Ac N Sc Phila, J (2) 7 : 23–472, il (1869)

**69a** Notice of some extinct vertebrates from Wyoming and Dakota. Ac N Sc Phila, Pr 1869 : 63–67

**70** On the *Elasmosaurus platyrus* of Cope. Am J Sc (2) 49 : 392 (1870)

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**70b** [On reptilian remains from Colorado, Pickens Co., Ala., and Wyoming.] Ac N Sc Phila, Pr 1870 : 3–5

**70c** [Remarks on *Mylodon* remains from Central America and on *Dromatherium sylvestre.*] Ac N Sc Phila, Pr 1870 : 8–9

**70d** [Remarks on *Elasmosaurys platyurus* and other vertebrate remains.] Ac N Sc Phila, Pr 1870 : 9–11

**70e** [Remarks on ichthyodorulites from Kansas and Tennessee and on mammalian remains from Illinois.] Ac N Sc Phila, Pr 1870 : 12–13

**70f** [On rhinoceros remains from the Badlands.] Ac N Sc Phila, Pr 1870 : 65–66

**70g** [On vertebrate remains from Idaho, Utah, and Oregon.] Ac N Sc Phila, Pr 1870 : 66–67

**70h** [Remarks on *Hadrosaurus* and its allies.] Ac N Sc Phila, Pr 1870 : 67–68

**70i** [On remains of *Elephas* and *Bison* from a well at Burlington, Kans.] Ac N Sc Phila, Pr 1870 : 69

**70j** [On new cyprinoid fishes from the Rocky Mountains region.] Ac N Sc Phila, Pr 1870 : 69–71

**70k** [On remains of *Ovibos* from Harrison Co., Iowa.] Ac N Sc Phila, Pr 1870 : 73

**70l** [Notice of *Nothosaurops occiduus* from Moreau River, S. Dak.] Ac N Sc Phila, Pr 1870 : 74

**70m** Notes on the American mastodon and other fossils. Ac N Sc Phila, Pr 1870 : 96–99 Am J Sc (3) 1 : 63–65 (1870)

**70n** [Description of *Crocodilus elliotti* from Wyoming.] Ac N Sc Phila, Pr 1870 : 100

**70o** [On vertebrate fossils from Wyoming.] Ac N Sc Phila, Pr 1870 : 109–110

**70p** [On vertebrate fossils from the John Day region, Oreg.] Ac N Sc Phila, Pr 1870 : 111–113

**70q** [On mammalian remains from Wyoming.] Ac N Sc Phila, Pr 1870 : 113–114

**70r** [On *Graphiodon vinearius* from Marthas Vineyard, Mass, and on *Crocodilus elliotti.*] Ac N Sc Phila, Pr 1870 : 122

**70s** [Descriptions of species of *Emys* and *Saniwa* from Wyoming.] Ac N Sc Phila, Pr 1870 : 123–124

**70t** [Remarks on vertebrate fossils from Table Mountain, Tuolumne Co., Cal.] Ac N Sc Phila, Pr 1870 : 125–127

**70u** [On *Lophiotherium sylvaticum* from Green River, Wyo., and on *Protohippus.*] Ac N Sc Phila, Pr 1870 : 126–127

**70v** On *Discosaurus* and its allies. Ac N Sc Phila, Pr 1870 : 18–22 Am J Sc (2) 50 : 139–140 (1870)

**71** Report on the vertebrate fossils of the Tertiary formations of the West. U S G S Wyo (Hayden), Prel Rp [4] : 340–370 (1871)

**Leidy,** Joseph—Continued.

**71a** [On mammalian fossils from California.] Ac N Sc Phila, Pr 1871 : 50

**71b** [On turtles from Wyoming.] Ac N Sc Phila, Pr 1871 : 102–103

**71c** Remains of mastodon and horse in North Carolina. Ac N Sc Phila, Pr 1871 : 113

**71d** Remains of extinct mammals from Wyoming. Ac N Sc Phila, Pr 1871 : 113–116

**71e** [On *Palaeosyops* from Fort Bridger, Wyo.] Ac N Sc Phila, Pr 1871 : 118

**71f** Remarks on a fossil *Testudo* from Wyoming and supposed fossil turtle eggs. Ac N Sc Phila, Pr 1871 : 154–155

**71g** Remarks on donations of fossils from Wyoming. Ac N Sc Phila, Pr 1871 : 197

**71h** Remarks on mastodon, etc., of California. Ac N Sc Phila, Pr 1871 : 198–199

**71i** Note on *Anchitherium.* Ac N Sc Phila, Pr 1871 : 199

**71j** Remarks on fossil vertebrates from Wyoming. Ac N Sc Phila, Pr 1871 : 228–229 (1871) Am J Sc (3) 2 : 372–373 (1871) Am Nat 5 : 664–666 (1871)

**71k** Notice of some extinct rodents. Ac N Sc Phila, Pr 1871 : 230–232

**72** On the fossil vertebrates of the early Tertiary formation of Wyoming. U S G S Mont (Hayden), An Rp 5 : 353–372 (1872)

**72a** Remarks on the minerals of Mount Mica, Maine. Ac N Sc Phila, Pr 1871 : 245–247 (1872)

**72b** Remarks on fossils from Oregon. Ac N Sc Phila, Pr 1871 : 247–248 (1872)

**72c** Notice of corundum. Ac N Sc Phila, Pr 1872 : 19

**72d** Remarks on fossils from Wyoming. Ac N Sc Phila, Pr 1872 : 19–21

**72e** Remarks on some extinct mammals. Ac N Sc Phila, Pr 1872 : 37–38

**72f** Remarks on some extinct vertebrates. Ac N Sc Phila, Pr 1872 : 38–40

**72g** Remarks on mastodon from New Mexico. Ac N Sc Phila, Pr 1872 : 142

**72h** On a new genus of extinct turtles. Ac N Sc Phila, Pr 1872 : 162

**72i** On some remains of Cretaceous fishes. Ac N Sc Phila, Pr 1872 : 162–163

**72j** Remarks on fossil shark teeth. Ac N Sc Phila, Pr 1872 : 166

**72k** On some new species of fossil Mammalia from Wyoming. Ac N Sc Phila, Pr 1872 : 167–169 Am J Sc (3) 4 : 239–240 (1872)

**72l** Notice of a corundum mine [Unionville, Chester Co., Pa.]. Ac N Sc Phila, Pr 1872 : 238–239

**72m** Remarks on fossil mammals from Wyoming. Ac N Sc Phila, Pr 1872 : 240–242

**72n** Remarks on the action of wind and sand on rocks. Ac N Sc Phila, Pr 1872 : 243

**Leidy,** Joseph—Continued.

**73** Contributions to the extinct vertebrate fauna of the Western Territories. U S G Geog S Terr (Hayden), Rp 1 : 358 pp, il (1873) Extract from introduction, Cin Q J Sc 1 : 269–277 (1874)

**73a** [On fossils from Wyoming.] Ac N Sc Phila, Pr 1872 : 267–268 (1873)

**73b** Remarks on fossils from Wyoming. Ac N Sc Phila, Pr 1872 : 277 (1873)

**73c** Notice of fossil Vertebrata from the Miocene of Virginia. Ac N Sc Phila, Pr 1873 : 15 Am J Sc (3) 5 : 311–312 (1873)

**73d** Notice of remains of fishes in the Bridger Tertiary formation of Wyoming. Ac N Sc Phila, Pr 1873 : 97–99

**73e** Remarks on the occurrence of an extinct hog in America. Ac N Sc Phila, Pr 1873 : 207

**73f** Remarks on extinct mammals from California. Ac N Sc Phila, Pr 1873 : 259–260

**74** Remarks on fossil elephant teeth. Ac N Sc Phila, Pr 1873 : 416–417 (1874)

**74a** [Remarks on *Thespesius* and *Ischyrotherium.*] Ac N Sc Phila, Pr 1874 : 74–75

**74b** Notice of remains of *Titanotherium.* Ac N Sc Phila, Pr 1874 : 165–166

**75** Remarks on fossils presented. Ac N Sc Phila, Pr 1874 : 223–224 (1875)

**75a** Remarks on a coal fossil, etc. [Pennsylvania]. Ac N Sc Phila, Pr 1875 : 120

**75b** Remarks on elephant remains. Ac N Sc Phila, Pr 1875 : 121

**76** On *Petalodus* [apparently from green sand of New Jersey]. Ac N Sc Phila, Pr 1876 : 9

**76a** Remarks on fossils from the Ashley phosphate beds. Ac N Sc Phila, Pr 1876 : 80–81, 86–87, 114–115 *Abst,* Am J Sc (3) 12 : 222–223 (1876)

**76b** Fish remains of the Mesozoic red shales. Ac N Sc Phila, Pr 1876 : 81 Am J Sc (3) 12 : 223 (1876)

**76c** Bituminous sediment of the Schuylkill River. Ac N Sc Phila, Pr 1876 : 193

**77** Description of vertebrate remains, chiefly from the phosphate beds of South Carolina. Ac N Sc Phila, J (2) 8 : 209–261, il (1877)

**79** Fossil remains of a caribou. Ac N Sc Phila, Pr 1879 : 32–33

**79a** Fossil foot tracks of the anthracite coal measures. Ac N Sc Phila, Pr 1879 : 164–165

**80** Bone caves of Pennsylvania. Ac N Sc Phila, Pr 1880 : 346–349

**81** Remarks on *Bathygnathus borealis.* Ac N Sc Phila, J (2) 8 : 449–451, il (1881)

**82** Remarks on some rock specimens [South Mountain, Berks Co., Pa., and Philadelphia gravels.] Ac N Sc Phila, Pr 1882 : 10–12

**Leidy,** Joseph—Continued.

**82a** On tourmalines. Ac N Sc Phila, Pr 1882 : 71–73

**82b** *Scolithus* in gravel. Ac N Sc Phila, Pr 1882 : 93

**83** On remains of horses. Ac N Sc Phila, Pr 1882 : 290–291, il (1883)

**83a** On an extinct peccary. Ac N Sc Phila, Pr 1882 : 301–302 (1883)

**83b** A flint nodule from the greensand of New Jersey. Ac N Sc Phila, Pr 1883 : 76

**84** Fossil bones from Louisiana. Ac N Sc Phila, Pr 1884 : 22

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HAL MEADOW

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HAL MEADOW

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**23** Account of an expedition from Pittsburgh to the Rocky Mountains performed in the years 1819 and '20... See James (E), 23

**24** Narrative of an expedition to the source of St. Peter's River, Lake Winnepeek, Lake of the Woods, etc., etc., performed in the year 1823... See Keating, 24

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**70e** Notice of some new Tertiary and Cretaceous fishes (*abst*). Am As, Pr 18 : 227–230 (1870)

**71** On the geology of the eastern Uinta Mountains. Am J Sc (3) 1 : 191–198 (1871)

**71a** Notice of a fossil forest in the Tertiary of California. Am J Sc (3) 1 : 266–268 (1871)

**Marsh,** Othniel Charles—Continued.

**71b** Description of some new fossil serpents from the Tertiary deposits of Wyoming. Am J Sc (3) 1 : 322–329 (1871) Italia, R Comitato G, B 3 : 273–278 (1872)

**71c** Notice of some new fossil reptiles from the Cretaceous and Tertiary formations. Am J Sc (3) 1 : 447–459 (1871) Italia, R Comitato G, B 3 : 278–283, 338–342 (1872)

**71d** Note on a new and gigantic species of pterodactyl. Am J Sc (3) 1 : 472 (1871)

**71e** Notice of some new fossil mammals and birds from the Tertiary formation of the West. Am J Sc (3) 2 : 120–127 (1871) Italia, R Comitato G, B 3 : 350–353 (1872)

**71f** Notice of some new fossil mammals from the Tertiary formation. Am J Sc (3) 2 : 35–44 (1871) Italia, R Comitato G, B 3 : 343–350 (1872)

**71g** [On new reptiles and fishes from the Cretaceous and Tertiary, chiefly from the Rocky Mountain region.] Ac N Sc Phila, Pr 1871 : 103–105

**71h** [On a tooth of *Lophiodon* from the Miocene marl of Cumberland Co., N. J.] Ac N Sc Phila, Pr 1871 : 9–10

**72** Discovery of a remarkable fossil bird. Am J Sc (3) 3 : 56–57 (1872)

**72a** Discovery of additional remains of Pterosauria with descriptions of two new species. Am J Sc (3) 3 : 241–248 (1872)

**72b** Discovery of the dermal scutes of mosasauroid reptiles. Am J Sc (3) 3 : 290–292 (1872)

**72c** Notice of a new species of *Hadrosaurus*. Am J Sc (3) 3 : 301 (1872)

**72d** Preliminary description of *Hesperornis regalis*, with notice of four other new species of Cretaceous birds. Am J Sc (3) 3 : 360–365 (1872) An Mag N H (4) 10 : 212–217 (1872) Italia, R Comitato G, B 3 : 211–217 (1872)

**72e** On two new ornithosaurians from Kansas. Am J Sc (3) 3 : 374–375 (1872)

**72f** On the structure of the skull and limbs in mosasauroid reptiles, with descriptions of new genera and species. Am J Sc (3) 3 : 448–464, il (1872)

**72g** Preliminary description of new Tertiary mammals. Am J Sc (3) 4 : 122–128, 202–224 (1872)

**72h** Note on *Rhinosaurus*. Am J Sc (3) 4 : 147 (1872)

**72i** Notice of some new Tertiary and post-Tertiary birds. Am J Sc (3) 4 : 256–262 (1872) *Abst*, Ac N Sc Phila, Pr 1870 : 11

**72j** Preliminary description of new Tertiary reptiles. Am J Sc (3) 4 : 298–309 (1872)

**72k** Note on *Tinoceras anceps*. Am J Sc (3) 4 : 322 (1872)

**72l** Notice of a new species of *Tinoceras*. Am J Sc (3) 4 : 323 (1872)

**72m** Notice of some remarkable fossil mammals. Am J Sc (3) 4 : 343–344 (1872)

**Marsh,** Othniel Charles—Continued.

**72n** Notice of a new and remarkable fossil bird. Am J Sc (3) 4 : 344 (1872) Am Nat 7 : 50 (1872) An Mag N H (4) 11 : 80 (1873)

**72o** Discovery of fossil Quadrumana in the Eocene of Wyoming. Am J Sc (3) 4 : 405–406 (1872) G Mag 10 : 33 (1873) Am Nat 7 : 179–180 (1873)

**72p** Note on a new genus of carnivores from the Tertiary of Wyoming. Am J Sc (3) 4 : 406 (1872) G Mag 10 : 33–34 (1873)

**72q** Notice of a new reptile from the Cretaceous [Kans.] Am J Sc (3) 4 : 406 (1872) G Mag 10 : 34 (1873)

**72r** Synopsis of the fossil forms [of North American birds]. *In* Coues, Elliott, Key to North American birds, pp 347–350, Salem 1872 *Abst,* Am J Sc (3) 5 : 229–230 (1873)

**72s** Boulders in coal. Am Nat 6 : 439 (1872)

**73** Notice of a new species of *Ichthyornis.* Am J Sc (3) 5 : 74 (1873)

**73a** On the gigantic fossil mammals of the order Dinocerata. Am J Sc (3) 5 : 117–122, il, 293–296, 310–311 (1873) J Zool, Paris, 2 : 160–168, il (1873) An Sc Nat, Zool (5) 17 art 9 : 1–8, il (1873)

**73b** On a new subclass of fossil birds (Odontornithes). Am J Sc (3) 5 : 161–162 (1873) An Nat 7 : 115–117 (1873) An Mag N H (4) 11 : 233–234 (1873) G Mag 10 : 115–116 (1873) An Sc Nat, Zool (5) 17 art 9 : 8–10 (1873)

**73c** Notice of new Tertiary mammals. Am J Sc (3) 5 : 407–410, 485–488 (1873)

**73d** New observations on the Dinocerata. Am J Sc (3) 6 : 300–301 (1873)

**73e** On some of Professor Cope's recent investigations. Am Nat 7 : 51–52 (1873)

**73f** The fossil mammals of the order Dinocerata. Am Nat 7 : 146–153, il (1873)

**73g** On the genus *Tinoceras* and its allies. Am Nat 7 : 217–218 (1873)

**73h** *Tinoceras* and its allies. Am Nat 7 : 306–308 (1873)

**73i** Note on the dates of some of Professor Cope's recent papers. Am Nat 7 : 173 (1873) Am J Sc (3) 5 : 235–236 (1873)

**73j** On the dates of Professor Cope's recent publications. Am Nat 7 : 303–306 (1873)

**73k** Reply to Professor Cope's explanation. Am Nat 7 : Appendix to June no : ix pp (1873)

**73l** Communication on the discovery of new Rocky Mountain fossils. Am Ph Soc, Pr 12 : 578–579 (1873) Ann Sc Géol, 3 art 6 : 99–100 (1873)

**73m** On the gigantic mammals of the American Eocene. Am Ph Soc, Pr 13 : 255–256 (1873)

**Marsh,** Othniel Charles—Continued.

**74** On the structure and affinities of the Brontotheridae. Am J Sc (3) 7 : 81–86, il (1874) Am Nat 8 : 79–85, il (1874)

**74a** Notice of new equine mammals from the Tertiary formation. Am J Sc (3) 7 : 247–258, il (1874) (*in part*) An Mag N H (4) 13 : 397–400, il (1874) (*in part*) Cin Q J Sc 1 : 157–160 (1874)

**74b** Notice of new Tertiary mammals, III. Am J Sc (3) 7 : 531–534 (1874)

**74c** Small size of the brain in Tertiary mammals. Am J Sc (3) 8 : 66–67 (1874) Am Nat 8 : 503–504 (1874) An Mag N H (4) 14 : 167 (1874) J Zool, Paris, 3 : 326–327 (1874)

**74d** Fossil horses in America. Am Nat 8 : 288–294, il (1874)

**75** Ancient lake basins of the Rocky Mountain region. Am J Sc (3) 9 : 49–52 (1875) *Abst,* Am Nat 9 : 119 (1875) ; G Mag (2) 2 : 232–233 (1875)

**75a** New order of Eocene mammals. Am J Sc (3) 9 : 221 (1875) Am Nat 9 : 182–183 (1875) An Mag N H (4) 15 : 307 (1875) Nature 11 : 368 (1875) J Zool, Paris, 4 : 70–71 (1875)

**75b** Notice of new Tertiary mammals, IV. Am J Sc (3) 9 : 239–250 (1875)

**75c** On the Odontornithes, or birds with teeth. Am J Sc (3) 10 : 403–408, il (1875) Am Nat 9 : 625–631, il (1875) G Mag (2) 3 : 49–53, il (1876) J Zool, Paris, 4 : 494–502 (1875)

**76** Principal characters of the Dinocerata. Am J Sc (3) 11 : 163–168, il (1876) J Zool, Paris, 5 : 136–145, il (1876)

**76a** Principal characters of the Tillodontia. Am J Sc (3) 11 : 249–251, il (1876) J Zool, Paris, 5 : 244–248, il (1876)

**76b** Principal characters of the Brontotheridae. Am J Sc (3) 11 : 335–340, il (1876) J Zool, Paris, 5 : 248–255, il (1876)

**76c** On some characters of the genus *Coryphodon* Owen. Am J Sc (3) 11 : 425–428, il (1876)

**76d** Notice of a new suborder of Pterosauria. Am J Sc (3) 11 : 507–509 (1876)

**76e** Notice of new Odontornithes. Am J Sc (3) 11 : 509–511 (1876) J Zool, Paris, 5 : 304–306 (1876)

**76f** Recent discoveries of extinct animals. Am J Sc (3) 12 : 59–61 (1876) Am Nat 10 : 436–439 (1876)

**76g** Notice of new Tertiary mammals, V. Am J Sc (3) 12 : 401–404 (1876)

**76h** Principal characters of American pterodactyls. Am J Sc (3) 12 : 479–480 (1876)

**77** Principal characters of the Coryphodontidae. Am J Sc (3) 14 : 81–85 (1877) J Zool, Paris, 6 : 380–385 (1877) *Abst,* Am Nat 11 : 500 (1877)

HAL MEADOW

**Marsh,** Othniel Charles—Continued.

**77a** Characters of the Odontornithes, with notice of a new allied genus. Am J Sc (3) 14 : 85–87 (1877) J Zool 6 : 385–389 (1877) *Abst,* Ann Sc Géol 8 no 3 : 2 pp (1877) ; Am Nat 11 : 500, il (1877)

**77b** Notice of a new and gigantic dinosaur [*Titanosaurus*]. Am J Sc (3) 14 : 87–88 (1877) J Zool, Paris, 6 : 248–250 (1877)

**77c** Notice of some new vertebrate fossils. Am J Sc (3) 14 : 249–256, il (1877)

**77d** Introduction and succession of vertebrate life in America. Am J Sc (3) 14 : 337–378 (1877) Am As, Pr 26 : 211–258 (1878) Nature 16 : 448–450, 470–472, 489–491 (1877) Pop Sc Mo 12 : 513–527, 672–697 (1878) Rv Scient (2) 14 [an 7] : 1039–1046, 1064–1074 (1878)

**77e** A new order of extinct Reptilia (Stegosauria) from the Jurassic of the Rocky Mountains. Am J Sc (3) 14 : 513–514 (1877)

**77f** Notice of new dinosaurian reptiles from the Jurassic formation. Am J Sc (3) 14 : 514–516 (1877)

**77g** Brain of *Coryphodon*. Am Nat 11 : 375 (1877)

**78** New species of *Ceratodus* from the Jurassic [of Colorado]. Am J Sc (3) 15 : 76, il (1878) An Mag N H (5) 1 : 184 (1878)

**78a** Notice of new dinosaurian reptiles. Am J Sc (3) 15 : 241–244, il (1878)

**78b** Notice of new fossil reptiles. Am J Sc (3) 15 : 409–411 (1878)

**78c** Fossil mammal from the Jurassic of the Rocky Mountains. Am J Sc (3) 16 : 459 (1878) An Mag N H (5) 2 : 108 (1878)

**78d** New pterodactyl from the Jurassic of the Rocky Mountains. Am J Sc (3) 16 : 233–234 (1878)

**78e** Principal characters of American Jurassic dinosaurs. Am J Sc (3) 16 : 411–416, il (1878) ; 17 : 86–92, il (1879)

**78f** Brain of a fossil mammal [*Coryphodon*]. Nature 17 : 340 (1878)

**79** A new order of extinct reptiles (Sauranodonta) from the Jurassic formation of the Rocky Mountains. Am J Sc (3) 17 : 85–86 (1879)

**79a** Principal characters of American Jurassic dinosaurs. Am J Sc (3) 17 : 86–92, il (1879)

**79b** Additional characters of the Sauropoda. Am J Sc (3) 17 : 181–182 (1879)

**79c** The vertebrae of recent birds. Am J Sc (3) 17 : 266–269, il (1879)

**79d** Polydactyl horses, recent and extinct. Am J Sc (3) 17 : 499–505, il (1879)

**79e** Notice of a new Jurassic mammal. Am J Sc (3) 18 : 60–61 (1879) An Mag N H (5) 4 : 167–168 (1879) G Mag (2) 6 : 371–372 (1879)

**Marsh,** Othniel Charles—Continued.

**79f** Additional remains of Jurassic mammals. Am J Sc (3) 18 : 215–216, il (1879)

**79g** History and methods of paleontological discovery. Am As, Pr 28 : 1–42 (1880) Am J Sc (3) 18 : 323–359 (1879) Pop Sc Mo 16 : 219–236, 363–380 (1879–80) Nature 20 : 494–499, 515–521 (1879) Kosmos, Leipzig, Jg 3 Bd 6 : 339–352, 425–445 (1880)

**79h** Notice of new Jurassic mammals. Am J Sc (3) 18 : 396–398 (1879)

**79i** Notice of new Jurassic reptiles. Am J Sc (3) 18 : 501–505, il (1879)

**80** Odontornithes ; a monograph on the extinct toothed birds of North America. U S G Expl 40th Par (King), 7 : 201 pp, il (1880) Yale Coll, Peabody Mus, Mem 1 : 201 pp, il (1880)

**80a** New characters of mosasauroid reptiles. Am J Sc (3) 19 : 83–87, il (1880)

**80b** the limbs of *Sauranodon,* with notice of a new species. Am J Sc (3) 19 : 169–171, il, 491 (1880)

**80c** Principal characters of American Jurassic dinosaurs, Pt. III. Am J Sc (3) 19 : 253–259 (1880)

**80d** The sternum in dinosaurian reptiles. Am J Sc (3) 19 : 395–396, il (1880)

**80e** Notice of Jurassic mammals representing two new orders. Am J Sc (3) 20 : 235–239, il (1880)

**80f** List of genera established by Professor O. C. Marsh, 1862–1879. 12 pp, n p, n d [New Haven 1880?] [priv pub]

**81** Principal characters of American Jurassic dinosaurs, IV. Am J Sc (3) 21 : 167–170 (1881)

**81a** A new order of extinct Jurassic reptiles (Coeluria). Am J Sc (3) 21 : 339–340, il (1881)

**81b** Discovery of a fossil bird in the Jurassic of Wyoming. Am J Sc (3) 21 : 341–342 (1881) An Mag N H (5) 7 : 488–489 (1881)

**81c** Note on American pterodactyls. Am J Sc (3) 21 : 342–343 (1881)

**81d** Principal characters of American Jurassic dinosaurs, Pt. V. Am J Sc (3) 21 : 417–423, il (1881)

**81e** Notice of new Jurassic mammals. Am J Sc (3) 21 : 511–513 (1881)

**81f** Restoration of *Dinoceras mirabile.* Am J Sc (3) 22 : 31–32, il (1881)

**81g** Jurassic birds and their allies. Am J Sc (3) 22 : 337–340 (1881) An Mag N H (5) 8 : 452–455 (1881) G Mag (2) 8 : 485–487 (1881) Science (ed, Michels) 2 : 512–513 (1881) Pop Sc Mo 20 : 312–315 (1882) Kosmos, Stuttgart, Jg 5 Bd 10 : 231–234 (1881) *Abst,* Nature 24 : 501 (1881)

HAL MEADOW

**Marsh,** Othniel Charles—Continued.

**81h** Classification of the Dinosauria. Am J Sc (3) 23 : 81–86 (1881) An Mag N H (2) 9 : 79–84 (1882) Nature 25 : 244–246 (1882) G Mag (2) 9 : 80–85 (1882) Kosmos, Stuttgart, Jg 5 Bd 10 : 382–387 (1881)

**82** The wings of pterodactyls. Am J Sc (3) 23 : 251–256, il (1882) G Mag (2) 9 : 205–210, il (1882) Nature 25 : 531–533, il (1882) Kosmos, Stuttgart, Jg 6 Bd 11 : 103–108, il (1882)

**83** Birds with teeth. U S G S, An Rp 3 : 45–88, il (1883)

**83a** Principal characters of American Jurassic dinosaurs; Part VI, Restoration of *Brontosaurus.* Am J Sc (3) 26 : 81-85. il (1883) G Mag (2) 10 : 385–388, il (1883)

**83b** On the supposed human footprints recently found in Nevada. Am J Sc (3) 26 : 139–140, il (1883)

**84** Principal characters of American Jurassic dinosaurs; Part VII, On the Diplodocidae, a new family of the Sauropoda. Am J Sc (3) 27 : 161–167, il (1884) G Mag (3) 1 : 99–107, il (1884) Notice by Achille Six, Soc G Nord, An 11 : 237–240 (1884)

**84a** A new order of extinct reptiles (Macelognatha). Am J Sc (3) 27 : 341, il (1884)

**84b** Principal characters of American Jurassic dinosaurs; Part VIII, The order Theropoda. Am J Sc (3) 27 : 329–340, il (1884) G Mag (3) 1 : 252–262, il (1884) Kosmos, Stuttgart, 15 (1884, 2) : 357–365 (1884) *Abst,* Science 3 : 542–544, il (1884)

**84c** Principal characters of American Cretaceous pterodactyls; Part I, The skull of *Pteranodon.* Am J Sc (3) 27 : 423–426, il (1884) G Mag (3) 1 : 345–348, il (1884)

**84d** On the united metatarsal bones of *Ceratosaurus.* Am J Sc (3) 28 : 161–162, il (1884)

**84e** On the classification and affinities of dinosaurian reptiles (*abst*). Brit As, Rp 54 : 763–766 (1885) Nature 3 : 68–69 (1884) Science 4 : 261 (1884)

**85** The gigantic mammals of the order Dinocerata. U S G S, An Rp 5 : 243–302, il (1885)

**85a** Names of extinct reptiles. Am J Sc (3) 29 : 169 (1885)

**85b** On the size of the brain in extinct animals (*abst*). Brit As, Rp 55 : 1065 (1886) Nature 32 : 562 (1885) Science 6 : 360 (1885)

**86** Dinocerata, a monograph of an extinct order of gigantic mammals. U S G S, Mon 10 : xviii, 243 pp, il (1886) Rv, Am J Sc (3) 29 : 173–204 (1885)

**87** American Jurassic mammals. Am J Sc (3) 33 : 327–348, il (1887) G Mag (3) 4 : 241–247, 289–299, il (1887) *Abst,* Brit As, Rp 54 : 734–736 (1885)

**Marsh,** Othniel Charles—Continued.

**87a** Notice of new fossil mammals. Am J Sc (3) 34 : 323–331, il (1887)

**87b** Principal characters of American Jurassic dinosaurs; Part IX, The skull and dermal armor of *Stegosaurus.* Am J Sc (3) 34 : 413–417, il (1887) G Mag (3) 5 : 11–15, il (1888)

**88** Notice of a new genus of Sauropoda and other new dinosaurs from the Potomac formation. Am J Sc (3) 35 : 89–94, il (1888)

**88a** Notice of new fossil sirenian, from California. Am J Sc (3) 35 : 94–96, il (1888)

**88b** A new family of horned Dinosauria, from the Cretaceous. Am J Sc (3) 36 : 477–478, il (1888)

**89** Restoration of *Brontops robustus,* from the Miocene of America (*abst*). Brit As, Rp 58 : 706–707 (1889) Am J Sc (3) 37 : 163–165, il (1889) G Mag (3) 6 : 99–101, il (1889)

**89a** Comparison of the principal forms of the Dinosauria of Europe and America. G Mag (3) 6 : 204–210 (1889) Am J Sc (3) 37 : 323–331 (1889)

**89b** Notice of new American Dinosauria. Am J Sc (3) 37 : 331–336, il (1889)

**89c** Discovery of Cretaceous Mammalia. Am J Sc (3) 38 : 81–92, 177-180, il (1889)

**89d** Notice of gigantic horned Dinosauria from the Cretaceous. Am J Sc (3) 38 : 173–176, il (1889)

**89e** The skull of the gigantic Ceratopsidae. Am J Sc (3) 38 : 501–506, il (1889) G Mag (3) 7 : 1–5, il (1890)

**90** Description of new dinosaurian reptiles. Am J Sc (3) 39 : 81–86, il (1890)

**90a** Distinctive characters of the order Hallopoda. Am J Sc (3) 39 : 415–417, il (1890)

**90b** Additional characters of the Ceratopsidae, with notice of new Cretaceous dinosaurs. Am J Sc (3) 39 : 418–426, il (1890)

**90c** Notice of new Tertiary mammals. Am J Sc (3) 39 : 523–525 (1890)

**90d** Notice of some extinct Testudinata. Am J Sc (3) 40 : 177–179, il (1890)

**90e** Additional genera established by Professor O. C. Marsh, 1880–1889. 5 pp, New Haven 1890 [not seen]

**91** A horned artiodactyle (*Protoceras celer*) from the Miocene. Am J Sc (3) 41 : 81–82 (1891)

**91a** The gigantic Ceratopsidae, or horned dinosaurs, of North America. Am J Sc (3) 41 : 167–178, il (1891) G Mag (3) 8 : 193–199, 241–248, il (1891) *Abst,* Brit As, Rp 60 : 793–795 (1891)

**91b** Restoration of *Triceratops.* Am J Sc (3) 41 : 339–342, il (1891) G Mag (3) 8 : 248–250, il (1891)

**91c** Restoration of *Stegosaurus.* Am J Sc (3) 42 : 179–181, il (1891) G Mag (3) 8 : 385–387, il (1891)

**Marsh,** Othniel Charles—Continued.

**91d** Notice of new vertebrate fossils. Am J Sc (3) 42 : 265–269 (1891)

**91e** Geological horizons as determined by vertebrate fossils. Am J Sc (3) 42 : 336–338 (1891) Int G Cong, V, Washington 1891, C R : 156–159 (1893)

**91f** Notes on Mesozoic Mammalia. Ac N Sc Phila, Pr 1891 : 237–241 (1891) Am Nat 25 : 611–616 (1891)

**91g** On the Cretaceous mammals of North America (*abst*). Brit As, Rp 60 : 853–854 (1891)

**92** The skull of *Torosaurus*. Am J Sc (3) 43 : 81–84, il (1892)

**92a** Discovery of Cretaceous Mammalia, Pt. 3. Am J Sc (3) 43 : 249–262, il (1892)

**92b** Recent polydactyle horses. Am J Sc (3) 43 : 339–355, il (1892)

**92c** A new order of extinct Eocene mammals (Mesodactyla). Am J Sc (3) 43 : 445–449, il (1892)

**92d** Notice of new reptiles from the Laramie formation. Am J Sc (3) 43 : 449–453, il (1892)

**92e** Notes on Triassic Dinosauria. Am J Sc (3) 43 : 543–546, il (1892)

**92f** Notes on Mesozoic vertebrate fossils. Am J Sc (3) 44 : 171–176, il (1892)

**92g** Restorations of *Claosaurus* and *Ceratosaurus*. Am J Sc (3) 44 : 343–349, il (1892) G Mag (3) 10 : 150–157, il (1893) Sc Am Sup 34 : 14068–14069, il (1892)

**92h** Restoration of *Mastodon americanus* Cuvier. Am J Sc (3) 44 : 350, il (1892) G Mag (3) 10 : 164, il (1893) Sc Am Sup 34 : 14085, il (1892)

**93** A new Cretaceous bird allied to *Hesperornis*. Am J Sc (3) 45 : 81–82, il (1893)

**93a** The skull and brain of *Claosaurus*. Am J Sc (3) 45 : 83–86, il (1893)

**93b** Restoration of *Anchisaurus*. Am J Sc (3) 45 : 169–170, il (1893) G Mag (3) 10 : 151–152, il (1893)

**93c** Restoration of *Coryphodon*. Am J Sc (3) 46 : 321–326, il (1893) G Mag (3) 10 : 481–487, il (1893)

**93d** Description of Miocene Mammalia. Am J Sc (3) 46 : 407–412, il (1893)

**93e** Some recent restorations of dinosaurs. Nature 48 : 437–438 (1893)

**94** Restoration of *Camptosaurus*. Am J Sc (3) 47 : 245–246, il (1894) G Mag (4) 1 : 193–195, il (1894) Sc Am Sup 37 : 15209–15210, il (1894)

**94a** Restoration of *Elotherium*. Am J Sc (3) 47 : 407–408, il (1894) G Mag (4) 1 : 294–295, il (1894)

**94b** A new Miocene mammal. Am J Sc (3) 47 : 409, il (1894)

**94c** Footprints of vertebrates in the Coal Measures of Kansas. Am J Sc (3) 48 : 81–84, il (1894) G Mag (4) 1 : 337–339, il (1894) Sc Am Sup 38 : 15491–15492, il (1894)

**Marsh,** Othniel Charles—Continued.

**94d** The typical Ornithopoda of the American Jurassic. Am J Sc (3) 48 : 85–90, il (1894)

**94e** Eastern division of the *Miohippus* beds, with notes on some of the characteristic fossils. Am J Sc (3) 48 : 91–94, il (1894)

**94f** Miocene artiodactyls from the eastern *Miohippus* beds. Am J Sc (3) 48 : 175–178, il (1894)

**94g** Description of Tertiary artiodactyls. Am J Sc (3) 48 : 259–274, il (1894) Rv, by E. D. Cope, Am Nat 28 : 867–869 (1894)

**94h** A gigantic bird from the Eocene of New Jersey. Am J Sc (3) 48 : 344, il (1894)

**94i** A new Miocene tapir. Am J Sc (3) 48 : 348 (1894)

**95** The Reptilia of the *Baptanodon* beds. Am J Sc (3) 50 : 405–406, il (1895)

**95a** On the affinities and classification of the dinosaurian reptiles. Am J Sc (3) 50 : 483–498, il (1895) Int Zool Cong, 3d, C R : 196–211, il (1896) G Mag (4) 3 : 388–400 (1896)

**95b** Restorations of extinct animals, Plate I. [New Haven 1895] [not seen]

**95c** Restorations of dinosaurian reptiles, Plate II. [New Haven 1895] [not seen]

**96** The dinosaurs of North America. U S G S, An Rp 16 pt 1 : 133–414, il (1896) *Extract*, Sc Am Sup 43 : 17828–17829, il (1897)

**96a** Vertebrate fossils [of the Denver Basin, Colo.]. U S G S, Mon 27 : 473–550, il (1896)

**96b** A new belodont reptile (*Stegomus*) from the Connecticut River sandstone. Am J Sc (4) 2 : 59–62, il (1896)

**96c** The geology of Block Island [R. I.]. Am J Sc (4) 2 : 295–298, 375–377 (1896)

**96d** Amphibian footprints from the Devonian. Am J Sc (4) 2 : 374–375, il (1896)

**96e** The Jurassic formation on the Atlantic coast. Am J Sc (4) 2 : 433–477 (1896) Science n s 4 : 805–816 (1896)

**97** The Stylinodontia, a suborder of Eocene edentates. Am J Sc (4) 3 : 137–146, il (1897)

**97a** The affinities of *Hesperornis*. Am J Sc (4) 3 : 347–348 (1897) G Mag (4) 5 : 38–39 (1898)

**97b** Principal characters of the Protoceratidae. Am J Sc (4) 4 : 165–176, il (1897)

**97c** The skull of *Protoceras*. G Mag (4) 4 : 433–439, il (1897)

**98** New species of Ceratopsia. Am J Sc (4) 6 : 92 (1898)

**98a** The Jurassic formation on the Atlantic coast. Am J Sc (4) 6 : 105–115 (1898) Science n s 8 : 145–154 (1898)

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**90d** Tracks of organic origin in rocks of the Animikie group. Am J Sc (3) 39: 145–147 (1890)

**91** Illustrations of the fauna of the St. John group, No. V. R Soc Can, Pr Tr 8, iv: 123–166, il (1891)

**91a** On some causes which may have influenced the spread of the Cambrian faunas. Can Rec Sc 4: 255–269 (1891)

**91b** On a new horizon in the St. John group. Can Rec Sc 4: 339–343 (1891)

**91c** Note on *Leptoplastus.* Can Rec Sc 4: 461–462, il (1891)

**91d** [On the horizon of *Diplaspis acadica.*] Am G 8: 61–62 (1891)

**91e** Notes on Cambrian faunas. Am G 8: 287–291 (1891)

**92** Illustrations of the fauna of the St. John group, No. VI. R Soc Can, Pr Tr 9, iv: 33–65, il (1892)

**92a** List of the fossils found in the Cambrian rocks in and near St. John. N H Soc N B, B [2] no 10: xi–xxiii (1892)

**92b** *Protolenus,* a new genus of Cambrian trilobites. N H Soc N B, B [2] no 10: 34–37, il (1892)

**92c** Are the eozoonal limestones at St. John, N. B., pre-Cambrian? Am G 9: 212–214 (1892)

**93** On the diffusion and sequence of the Cambrian faunas. R Soc Can, Pr Tr 10, iv: 3–16 (1893)

**93a** Illustrations of the fauna of the St. John group, No. VII. R Soc Can, Pr Tr 10, iv: 95–109, il (1893)

**93b** Notes on Cambrian faunas; development of the fauna of band *b* in the Acadian division (*Div. 1*) of the St. John group. Can Rec Sc 5: 247–258, il (1893)

**93c** *Trematobolus.* Can Rec Sc 5: 276–279, il (1893)

**93d** Is the fauna called "Primordial" the most ancient fauna? Can Rec Sc 5: 347–350 (1893)

**93e** The climate of Acadia in the earliest times. N H Soc N B, B [3] no 11: 3–18 (1893)

**93f** The St. John group. Am G 12: 340–341 (1893)

**94** Illustrations of the fauna of the St. John group, No. VIII. R Soc Can, Pr Tr 11, iv: 85–129, il (1894)

**94a** Ancient myriapods. Can Rec Sc 6: 93–99 (1894)

**Matthew,** George Frederick—Continued.

**94b** Postglacial faults at St. John, N. B. Am J Sc (3) 48: 501–503 (1894)

**94c** Movements of the earth's crust at St. John, N. B., in postglacial times. N H Soc N B, B [3] no 12: 34–42 (1894)

**94d** The outlets of the St. John River. N H Soc N B, B [3] no 12: 43–62 (1894)

**94e** Organic remains of the Little River group (*abst*). Am G 14: 67 (1894)

**95** On the organic remains of the Little River group, No. II. R Soc Can, Pr Tr 12, iv: 89–100, il (1895)

**95a** On the organic remains of the Little River group, No. III. R Soc Can, Pr Tr 12, iv: 101–111, il (1895)

**95b** Traces of the Ordovician system on the Atlantic coast. R Soc Can, Pr Tr (2) 1, iv: 253–271, il (1895)

**95c** Organic remains of the Little River group, No. IV. R Soc Can, Pr Tr (2) 1, iv: 273–279, il (1895)

**95d** Report on the summer camp at French Lake [N. B.]. N H Soc N B, B [3] no 13: 84–88 (1895)

**95e** Report on the summer camp at Lepreau Basin [N. B.]. N H Soc N B, B [3] no 13: 88–93 (1895)

**95f** [Cambrian Brachiopoda, St. John]. N H Soc N B, B [3] no 13: 94–95, il (1895)

**95g** Early Protozoa. Am G 15: 146–153 (1895)

**95h** The *Protolenus* fauna. N Y Ac Sc, Tr 14: 101–153, il (1895) *Abst,* Science n s 1: 452–453 (1895)

**95i** Two new Cambrian graptolites with notes on other species of Graptolitidae of that age. N Y Ac Sc, Tr 14: 262–273, il (1895)

**96** On the occurrence of cirripedes in the Cambrian rocks of North America. N Y Ac Sc, Tr 15: 144–146, il (1896)

**96a** Faunas of the *Paradoxides* beds in eastern North America. N Y Ac Sc, Tr 15: 192–247, il (1896)

**96b** Notes on Cambrian faunas; the genus *Microdiscus.* Am G 18: 28–31 (1896)

**96c** Some features of the early Cambrian faunas (*abst*). Brit As, Rp 66: 785–787 (1896)

**97** Studies of Cambrian faunas. R Soc Can, Pr Tr (2) 3, iv: 165–203, il (1897)

**97a** Abraham Gesner; a review of his scientific work. N H Soc N B, B [3] no 15: 3–48, map (1897)

**97b** Description of an extinct Paleozoic insect [*Geracus tubifer*], and a review of the fauna with which it occurs. N H Soc N B, B [3] no 15: 49–60, il (1897)

**97c** What is the *Olenellus* fauna? Am G 19: 396–407 (1897)

**97d** The oldest *Siphonotreta.* G Mag (4) 4: 68–71, il (1897)

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**97e** Some features of the early Cambrian faunas (*abst*). Science n s 5 : 254–256 (1897)

**98** Studies on Cambrian faunas, No. 2; The Cambrian system in the Kennebecasis Valley [N. B.]. R Soc Can, Pr Tr (2) 4, iv : 123–153, il, map (1898)

**98a** Recent discoveries in the St. John group, No. 2. N H Soc N B, B no 16 (4 pt 1) : 32–43, il, map (1898)

**98b** The oldest Paleozoic fauna (*abst*). Am As, Pr 47 : 301–302 (1898) Am G 22 : 262 (1898) Science n s 8 : 503–504 (1898)

**98c** Some characteristic genera of the Cambrian (*abst*). Brit As, Rp 67 : 657–658 (1898) G Mag (4) 5 : 82–83 (1898)

**99** Studies on Cambrian faunas, No. 3: Upper Cambrian faunas of Mount Stephen, B. C.—the trilobites and worms. R Soc Can, Pr Tr (2) 5, iv : 39–66, il (1899)

**99a** Studies on Cambrian faunas, No. 4: Fragments of the Cambrian faunas of Newfoundland. R Soc Can, Pr Tr (2) 5, iv : 67–95, il (1899)

**99b** The Etcheminian fauna of Smith Sound, Newfoundland. R Soc Can, Pr Tr (2) 5, iv : 97–119, il (1899)

**99c** A new Cambrian trilobite [*Metadoxides magnificus*]. N H Soc N B, B no 17 (4 pt 2) : 137–142, il (1899)

**99d** (and **Kain,** S. W.) On artesian and fissure wells in New Brunswick. N H Soc N B, B no 17 (4 pt 2) : 143–152 (1899)

**99e** Preliminary notice of the Etcheminian fauna of Newfoundland. N H Soc N B, B no 18 (4 pt 3) : 189–196, il (1899)

**99f** Preliminary notice of the Etcheminian fauna of Cape Breton. N H Soc N B, B no 18 (4 pt 3) : 198–208, il (1899)

**99g** A Paleozoic terrane beneath the Cambrian. N Y Ac Sc, An 12 : 41–56 (1899)

**00** [Report on the Cambrian rocks of Cape Breton Island.] Can G S, Sum Rp 1899 (An Rp 12 : A 187–189 (1900)

**00a** A forest fire at St. John [N. B.] about 2000 years ago. Can Rec Sc 8 : 213–218 (1900)

**00b** *Oldhamia*. Can Rec Sc 8 : 228–232, il (1900)

**00c** Mr. Walcott's view of the Etcheminian. Am G 25 : 255–258 (1900)

**01** *Acrothyra* and *Hyolithes*—a comparison. R Soc Can, Pr Tr (2) 7, iv : 93–107, il (1901)

**01a** *Hyolithes gracilis* and related forms from the lower Cambrian of the St. John group. R Soc Can, Pr Tr (2) 7, iv : 109–111, il (1901)

**01b** A backward step in paleobotany. R Soc Can, Pr Tr (2) 7, iv : 113–122 (1901) *Abst,* Science n s 13 : 1019 (1901)

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**01c** New species of Cambrian fossils from Cape Breton. N H Soc N B, B no 19 (4 pt 4) : 269–286, il (1901) *Abst,* Am J Sc (4) 11 : 396 (1901)

**01d** *Acrothyra,* a new genus of Etcheminian brachiopods. N H Soc N B, B no 19 (4 pt 4) 303–304, il (1901)

**01e** [The Devonian of the Acadian provinces.] Can Rec Sc 8 : 344–345 (1901)

**01f** Les plus anciennes faunes paléozoïques. Int G Cong, VIII, Paris 1900, C R : 313–316 (1901)

**01g** Are the St. John plant beds Carboniferous? Am G 27 : 383–386 (1901)

**01h** *Monocraterion* and *Oldhamia.* Irish Naturalist 10 : 135–136 (1901)

**02** [On Cambrian and Silurian rocks in York Co., N. B.] Can G S, Sum Rp 1901 (An Rp 14) : A 197–201 (1902)

**02a** Cambrian rocks and fossils of Cape Breton. Can G S, Sum Rp 1901 (An Rp 14) : A 223–232 (1902)

**02b** Notes on Cambrian faunas. R Soc Can, Pr Tr (2) 8, iv : 93–112, il (1902)

**02c** Ostracoda of the basal Cambrian rocks in Cape Breton. Can Rec Sc 8 : 437–468, il (1902)

**02d** Additional notes on the Cambrian of Cape Breton, with descriptions of new species. N H Soc N B, B no 20 (4 pt 5) : 377–426, il (1902)

**02e** Stratigraphy vs. paleontology in Nova Scotia. Science n s 16 : 513–514 (1902)

**03** Report on the Cambrian rocks of Cape Breton. Can G S : 246 pp, il (1903)

**03a** An attempt to classify Paleozoic batrachian footprints. R Soc Can, Pr Tr (2) 9, iv : 109–121, il (1903)

**03b** New genera of batrachian footprints of the Carboniferous system in eastern Canada. Can Rec Sc 9 : 99–111, il (1903)

**03c** Note in reference to batrachian footprints. N H Soc N B, B no 21 (5 pt 1) : 102 (1903)

**03d** On batrachian and other footprints from the Coal Measures of Joggins, N. S. N H Soc N B, B no 21 (5 pt 1) : 103–108, il (1903)

**03e** "How long ago was America peopled?" Am G 32 : 195–196 (1903)

**04** Note on Oliver's Cave [near St. John, N. B.]. N H Soc N B, B no 22 (5 pt 2) : 171–174 (1904)

**04a** Notes on Cambrian faunas; No 9 [*Protolenus*]. N H Soc N B, B no 22 (5 pt 2) : 246 (1904)

**04b** Note on the genus *Hylopus* of Dawson. N H Soc N B, B no 22 (5 pt 2) : 247–252, il (1904)

**04c** Physical aspect of the Cambrian rocks in eastern Canada, with a catalogue of the organic remains found in them. N H Soc N B, B no 22 (5 pt 2) : 253–278 (1904)

**Matthew,** George Frederick—Continued.

**05** New species and a new genus of batrachian footprints of the Carboniferous system in eastern Canada. R Soc Can, Pr Tr (2) 10, iv: 77–121, il (1905)

**06** A review of the flora of the Little River group. R Soc Can, Pr Tr (2) 12, iv: 99–149, il (1906) *Abst,* Science n s 23: 972–973 (1906)

**06a** New species and a new genus of Devonian plants. N H Soc N B, B 24 (5 pt 4): 393–398, il (1906)

**06b** Notes on Cambrian faunas; No. 9, Ostracoda; 10, Trilobita. N H Soc N B, B 24 (5 pt 4): 406, 475–480 (1906)

**07** A new genus and a new species of Silurian fish. R Soc Can, Pr Tr (3) 1, iv: 7–11, il (1907)

**07a** On some new species of Silurian and Devonian plants. R Soc Can, Pr Tr (3) 1, iv 185–197, il (1907)

**07b** Note on *Archæozoon.* N H Soc N B, B 25 (5 pt 5): 547–552, il (1907)

**08** The physical evolution of Acadia; Part I, The insular stage, or pre-Devonian development. N H Soc N B, B 26 (6 pt 1): 3–16, maps (1908)

**08a** Geological cycles in the maritime provinces of Canada. R Soc Can, Pr Tr (3) 2, iv: 121–143 (1908)

**09** Phosphate deposits of South Carolina and New Brunswick. N H Soc N B, B 27 (6 pt 2): 121–126 (1909)

**10** Changes of climate in the maritime provinces after the maximum of the latest glaciation. Int G Cong, XI, Stockholm, Die Veränderungen des Klimas seit dem Maximum der letzten Eiszeit: 377–380 (1910)

**10a** The geological age of the Little River group. R Soc Can, Pr Tr (3) 3, iv: 67–75, map (1910)

**10b** Revision of the flora of the Little River group, No. II. R Soc Can, Pr Tr (3) 3, iv: 77–113, il (1910)

**10c** Remarkable forms of the Little River group. R Soc Can, Pr Tr (3) 3, iv: 115–133, il (1910)

**10d** The oldest Silurian flora [Beaver Harbor, N. B.]. N H Soc N B, B 28 (6 pt 3): 241–250 (1910) [See also White (D), 11a]

**11** Review of the flora of the Little River group; No. III. R Soc Can, Pr Tr (3) 4, iv: 3–21, il (1911)

**12** Were there climatic zones in Devonian time? R Soc Can, Pr Tr (3) 5, iv: 125–153 (1912)

**12a** A new flora in the older Paleozoic rocks of southern New Brunswick. R Soc Can, Pr Tr (3) 6, iv: 83–99, il (1912)

**12b** The sudden appearance of the Cambrian fauna. Int G Cong, XI, Stockholm, 1910, C R: 547–559 (1912)

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**14** The physics of the Cambrian formation in eastern Canada, and the peculiarities of its faunas. R Soc Can, Tr (3) 8, iv: 69–85 (1914)

**16** Notes on Cambrian faunas, No. 12. R Soc Can, Tr (3) 10, iv: 45–54 (1916)

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**93** On the phosphate nodules from the Cambrian of southern New Brunswick. N Y Ac Sc, Tr 12: 108–120 (1893)

**93a** On antennae and other appendages of *Triarthrus beckii.* N Y Ac Sc, Tr 12: 237–241, il (1893) Am J Sc (3) 46: 121–125, il (1893)

**94** The intrusive rocks near St. John, N. B. N Y Ac Sc, Tr 13: 185–203 (1894)

**94a** The crystalline rocks near St. John, N. B. N H Soc N B, B [3] no 12: 16–33, map (1894)

**95** The volcanic rocks of the maritime provinces of Canada. N H Soc N B, B [3] no 13: 76–83 (1895)

**95a** The effusive and dike rocks near St. John, N. B. N Y Ac Sc, Tr 14: 187–218 (1895)

**95b** Monazite and orthoclase from South Lyme, Conn. Sch Mines Q 16: 231–233 (1895)

**96** Metamorphism of Triassic coals at Egypt, N. C. (*abst*). Science n s 3: 214 (1896)

**97** Notes on intrusive rocks near St. John, N. B. N H Soc N B, B [3] no 15: 61–64 (1897)

**97a** A revision of the Puerco fauna. Am Mus N H, B 9: 259–323, il (1897)

**97b** Development of the foot in the Palaeosyopinae. Am Nat 31: 57–58 (1897)

**97c** On the status of the Puerco fauna (*abst*). Anat Anz 14: 231–232 (1897) Science n s 6: 852 (1897)

**98** On some new characters of *Claenodon* and *Oxyaena* (*abst*). Science n s 8: 880 (1898)

**99** Is the White River Tertiary an eolian formation? Am Nat 33: 403–408 (1899)

**00** A provisional classification of the fresh-water Tertiary of the West. Am Mus N H, B 12: 19–75 (1900)

**00a** Notes on the geology of the Laramie Plains and Rattlesnake Mountains in Wyoming (*abst*). Science n s 11: 111 (1900)

**00b** (with **Wortman,** J. L.) The ancestry of certain members of the Canidae, the Viverridae, and Procyonidae. Am Mus N H, B 12: 109–138, il (1900)

**01** Fossil mammals of the Tertiary of northeastern Colorado. Am Mus N H, Mem 1: 355–447, il (1901)

**01a** Additional observations on the Creodonta. Am Mus N H, B 14: 1–38, il (1901)

**Matthew,** William Diller—Continued.

**02** The hall of fossil vertebrates [American Museum of Natural History]. Am Mus J 2 no 1 sup (Guide Leeaflet no 3) : 19 pp, il (1902)

**02a** A skull of *Dinocyon* from the Miocene of Texas. Am Mus N H, B 16 : 129–136, il (1902)

**02b** On the skull of *Bunaelurus,* a musteline from the White River Oligocene. Am Mus N H, B 16 : 137–140, il (1902)

**02c** New Canidae from the Miocene of Colorado. Am Mus N H, B 16 : 281–290, il (1902)

**02d** A horned rodent from the Colorado Miocene, with a revision of the Mylagauli, beavers and hares of the American Tertiary. Am Mus N H, B 16 : 291–310, il (1902)

**02e** The skull of *Hypisodus,* the smallest of the Artiodactyla, with a revision of the Hypertragulidae. Am Mus N H, B 16 : 311–316, il (1902)

**02f** List of the Pleistocene fauna from Hay Springs, Nebr. Am Mus N H, B 16 : 317–322 (1902)

**03** Illustrations of evolution among fossil mammals ; A, The horse. Am Mus J 3 no 1 sup (Guide Leaflet no 9) ; 30 pp il (1903)

**03a** The collection of fossil vertebrates... in the American Museum of Natural History. Am Mus J 3 no 5 sup (Guide Leaflet no 12) : 32 pp, il (1903)

**03b** The fauna of the *Titanotherium* beds at Pipestone Springs, Mont. Am Mus N H, B 19 : 197–226, il (1903)

**03c** A fossil hedgehog from the American Oligocene. Am Mus N H, B 19 : 227–229, il (1903)

**03d** Recent zoo-paleontology ; concerning the ancestry of the dogs. Science n s 17 : 912–913 (1903)

**04** A complete skeleton of *Merycodus.* Am Mus N H, B 20 : 101–129, il (1904)

**04a** Notice of two new Oligocene camels. Am Mus N H, B 20 : 211–215 (1904)

**04b** (and **Gidley,** J. W.) New or little-known mammals from the Miocene of South Dakota. Am Mus N H, B 20 : 241–268, il (1904)

**04c** The arboreal ancestry of the Mammalia. Am Nat 38 : 811–818 (1904)

**04d** Outlines of the continents in Tertiary times (*abst*). Am G 33 : 268–269 (1904) Science n s 19 : 581–582 (1904)

**04e** ... evolution of the camel... (*abst*). Science n s 19 : 892 (1904)

**05** Notice of two new genera of mammals from the Oligocene of South Dakota. Am Mus N H, B 21 : 21–26, il (1905)

**05a** Fossil carnivores, marsupials and small mammals in the American Museum of Natural History. Am Mus J 5 : 23–59, il (1905)

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**05b** The mounted skeleton of *Brontosaurus.* Am Mus J 5 : 63–70, il (1905)

**05c** Notes on the osteology of *Sinopa,* a primitive member of the Hyaenodontidae. Am Ph Soc, Pr 44 : 69–72 (1905)

**05d** Outlines of the continents in Tertiary times (*abst*). N Y Ac Sc, An 16 : 315–316 (1905)

**05e** On Eocene insectivora and on *Pantolestes* in particular (*abst*). Science n s 21 : 298–299 (1905)

**06** The osteology of *Sinopa,* a creodont mammal of the middle Eocene. U S Nat Mus, Pr 30 : 203–233, il (1906)

**06a** Hypothetical outlines of the continents in Tertiary times. Am Mus N H, B 22 : 353–383, paleogeographic maps (1906)

**06b** Fossil Chrysochloridae in North America. Science n s 24 : 786–788 (1906)

**06c** (and **Gidley,** J. W.) New or little-known mammals from the Miocene of South Dakota. Am Mus N H, B 22 : 135–153, il (1906)

**07** A lower Miocene fauna from South Dakota. Am Mus N H, B 23 : 169–219, il (1907)

**08** *Allosaurus,* a carnivorous dinosaur, and its prey. Am Mus J 8 : 3–5, il (1908)

**08a** The new *Ichthyosaurus.* Am Mus J 8 : 7–8, il (1908)

**08b** Mammalian migrations between Europe and North America. Am J Sc (4) 25 : 68–70 (1908)

**08c** A four-horned pelycosaurian from the Permian of Texas. Am Mus N H, B 24 : 183–185, il (1908)

**08d** Osteology of *Blastomeryx* and phylogeny of the American Cervidæ. Am Mus N H, B 24 : 535–562, il (1908)

**09** The Carnivora and Insectivora of the Bridger Basin, middle Eocene. Am Mus N H, Mem 9 : 289–567, il (1909)

**09a** Observations upon the genus *Ancodon.* Am Mus N H, B 26 : 1–7 (1909)

**09b** Faunal lists of the Tertiary Mammalia of the West. U S G S, B 361 : 91–120 (1909)

**09c** The oldest land reptiles of North America. Am Mus J 9 : 91–95, il (1909)

**09d** Seventh annual meeting of the American Society of Vertebrate Paleontologists. Science n s 29 : 194–198 (1909)

**09e** (and **Cook,** H. J.) A Pliocene fauna from western Nebraska [Sioux Co.]. Am Mus N H, B 26 : 361–414, il (1909) *Abst,* Science n s 29 : 196–197 (1909)

**09f** (with **Osborn,** H. F.) Geological correlation through vertebrate paleontology by international cooperation. N Y Ac Sc, An 19 : 41–44 (1909)

**10** On the skull of *Apternodus* and the skeleton of a new artiodactyl [*Eotylopus reedi*] Am Mus N H, B 28 : 33–42, il (1910) *Abst,* Science n s 29 : 196 (1909)

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**10a** On the osteology and relationships of *Paramys,* and the affinities of the Ischyromyidæ. Am Mus N H, B 28 : 43–72, il (1910)

**10b** The phylogeny of the Felidæ. Am Mus N H, B 28 : 289–316, il (1910)

**10c** The paleontologic correlation through the Bache fund. Science n s 31 : 407–408 (1910)

**10d** The pose of sauropodous dinosaurs. Am Nat 44 : 547–560 (1910)

**10e** The continuity of development. Pop Sc Mo 77 : 473–478 (1910)

**10f** The new plesiosaur [*Cryptoclidus*]. Am Mus J 10 : 246–250, il (1910)

**11** Fort Lee dinosaur [in Triassic shales along the Hudson River]. Am Mus J 11 : 28–29 (1911)

**11a** The ground sloth group. Am Mus J 11 : 113–119, il (1911)

**11b** A tree-climbing ruminant [*Agriochœrus*]. Am Mus J 11 : 162–163, il (1911)

**11c** The amphibians of the great coal swamps. Am Mus J 11 : 197–200, il (1911)

**11d** Fossil vertebrates, what they teach. Am Mus J 11 : 246–247 (1911)

**11e** Climate and evolution (*abst*). Science n s 33 : 508 (1911) N Y Ac Sc, An 21 : 190–191 (1912)

**12** Ten years' progress in vertebrate paleontology; Carnivora and Rodentia. G Soc Am, B 23 : 181–187 (1912)

**12a** The new four-toed horse skeleton. Am Mus J 12 : 186, il (1912)

**12b** New dinosaurs for the American Museum. Am Mus J 12 : 219 (1912)

**12c** The ancestry of the edentates as illustrated by the skeleton of *Hapalops,* a Tertiary ancestor of the ground sloths. Am Mus J 12 : 300–303, il (1912) Reprint, 8 pp, il (1913)

**13** Certain theoretical considerations affecting phylogeny and correlation. G Soc Am, B 24 : 283–292, 118 (*abst*), (1913)

**13a** The laws of nomenclature in paleontology. Science n s 37 : 788–792 (1913)

**13b** A zalambdodont insectivore from the basal Eocene. Am Mus N H, B 32 : 307–314, il (1913)

**13c** Nomenclature in paleontology. Science n s 38 : 87–88 (1913)

**13d** American Museum expeditions for fossil vertebrates. Am Mus J 13 : 286–287 (1913)

**13e** The asphalt group of fossil skeletons [from Rancho La Brea, Cal.]. Am Mus J 13 : 291–297, il (1913)

**13f** Cuban fossil mammals; preliminary note (*abst*). G Soc Am, B 24 : 118–119 (1913)

**13g** Evolution of the horse in nature. Am Mus N H, Guide Leaflet 36 : 1–35, 61–63, il (1913)

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**14** Evidence of the Paleocene vertebrate fauna on the Cretaceous-Tertiary problem. G Soc Am, B 25 : 381–402 (1914)

**14a** Time ratios in the evolution of mammalian phyla; a contribution to the problem of the age of the earth. Science n s 40 : 232–235 (1914)

**14b** Report of progress in the revision of the lower Eocene faunas (*abst*). G Soc Am, B 25 : 144–145 (1914)

**14c** Notes on Cuban fossil mammals (*abst*). N Y Ac Sc, An 23 : 263 (1914)

**14d** A zalambdodont insectivore from the basal Eocene of New Mexico (*abst*). N Y Ac Sc, An 23 : 263–264 (1914)

**14e** New discoveries in the American Eocene (*abst*). Brit As, Rp 83, 1913 : 491 (1914)

**15** The Tertiary sedimentary record and its problems. *In* Problems of American geology : 377–478, il, New Haven 1915

**15a** (and **Granger,** W.) A revision of the lower Eocene Wasatch and Wind River faunas. Am Mus N H, B 34 : 1–103, 311–328, 329–361, 429–483, il (1915)

**15b** Climate and evolution. N Y Ac Sc, An 24 : 171–318 (1915) Rv by Charles Schuchert [including observations on paleogeography and physiography] Am J Sc (4) 40 : 83–85 (1915)

**15c** Dinosaurs, with special reference to the American Museum collections. Am Mus N H, Handbook series no 5 : 162 pp, il (1915)

**15d** Mammoths and mastodons; a guide to the collections of fossil proboscideans in the American Museum of Natural History. Am Mus N H, Guide Leaflet series no 43 : 26 pp, il (1915)

**15e** (and **Brown,** B.) *Corythosaurus,* the new duck-billed dinosaur. Am Mus J 15 : 427–428 (1915)

**15f** New discoveries in the Lower Eocene mammals (*abst*). N Y Ac Sc, An 24 : 383 (1915)

**15g** Affinities of *Hyopsodus* (*abst*). G Soc Am, B 26 : 152 (1915)

**15h** Reconstruction of the skeleton of *Brachiosaurus* (*abst*). G Soc Am, B 26 : 153 (1915)

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HAL MEADOW

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**53e** On the fossil fishes of the Cliff limestone of Ohio (*abst* with discussion by James Hall). An Sc, Cleveland, 1 : 282–283 (1853)

**54** Note on the vegetation of the drift. An Sc, Cleveland, 2 : 76–77 (1854)

**56** Report upon the geology of the route [Williamson's survey in California and Oregon]. U S, Pacific R R Expl (U S, 33d Cong 2d sess, S Ex Doc 78 and H Ex Doc 91) 6 pt 2 : 5–68 (1856)

**56a** On the structure and affinities of certain fossil plants of the Carboniferous era. Am As, Pr 7 : 157–162, il (1856)

**56b** On the Carboniferous flora of Ohio, with descriptions of fifty new species of fossil plants. Am As, Pr 7 : 163–166 (1856)

**56c** On the fossil fishes of the Cliff limestone of Ohio. Am As, Pr 7 : 166–167 (1856)

**56d** Description of several new genera and species of fossil fishes from the Carboniferous strata of Ohio. Ac N Sc Phila, Pr 8 : 96–100 (1856)

**57** Report on the economical geology of the Ashtabula and New Lisbon Rail Road. Made November 1, 1856. 47 pp, map, Cleveland, Ohio, 1857 *Also in* Ashtabula & New Lisbon Railroad Co., An Rp : 13–56, Cleveland 1857

**57a** On the mode of formation of cannel coal. Am J Sc (2) 23 : 212–215 (1857) M Mag 9 : 352–355 (1857)

**57b** New fossil fishes from the Devonian rocks of Ohio. Am J Sc (2) 24 : 147–149 (1857) Nat Inst, Washington, D. C., Pr n s 1 : 119–126, il (1857)

**57c** [*Eurylepis* proposed for *Mekolepis*, preoccupied.] Ac N Sc Phila, Pr 1857 : 150

**Newberry,** John Strong—Continued.

**57d** On the deposits of the fossil fishes and reptiles of Linton, Ohio (*abst*). Edinb N Ph J n s 5 : 364–365 (1857)

**59** The rock oils of Ohio (from the Ohio agricultural report for 1859). 14 pp [n p, 1859]

**59a** Explorations in New Mexico. Am J Sc (2) 28 : 298–299 (1859)

**60** Notes on the ancient vegetation of North America. Am J Sc (2) 29 : 208–218 ; 30 : 273–275 (1860) In part, Can Nat 6 : 73–77 (1861)

**61** Geological report. *In* Ives, J. C., Report upon the Colorado River of the West (U S, 36th Cong 1st sess, S Ex Doc— and H Ex Doc 90), pt 3 : 154 pp, il, maps (1861)

**61a** Report on the State house well [Columbus, Ohio]. From report of Superintendent of State House for 1860 : 11 pp [Columbus 1861?] *Abst,* M Mag (2) 2 : 84–90 (1861)

**62** Notes on American fossil fishes. Am J Sc (2) 34 : 73–78, il (1862)

**62a** Notes on the surface geology of the basin of the Great Lakes. Boston Soc N H, Pr 9 : 42–46 (1862)

**63** Descriptions of fossil plants... [Vancouver Island and Washington]. Boston J N H 7 : 506–525 (1863)

**66** (and **Worthen, A. H.**) Descriptions of new species of vertebrates, mainly from the Subcarboniferous limestone and Coal Measures of Illinois. Ill G S 2 : 9–134, il (1866)

**68** Note on the later extinct floras of North America, with descriptions of some new species of fossil plants from the Cretaceous and Tertiary strata. Lyc N H N Y, An 9 : 1–76 (1868) *Abst,* Am J Sc (2) 46 : 401–407 (1868)

**68a** On some fossil reptiles and fishes, from the Carboniferous strata of Ohio, Kentucky, and Illinois. Am As, Pr 16 : 144–146 (1868) Can Nat n s 3 : 299–301 (1868)

**68b** On some remarkable fossil fishes, discovered ... in the black shale (Devonian) at Delaware, Ohio. Am As, Pr 16 : 146–147, il (1868) Can Nat n s 3 : 297–299, il (1868)

**68c** Geology [of Ohio]. *In* Atlas of the State of Ohio ... H. F. Walling, published for Henry S. Stebbins by H. H. Lloyd & Co. : 11–13, map, N Y 1868

**69** Report on the Cretaceous and Tertiary plants. *In* Hayden, F. V., Geological report of the exploration of the Yellowstone and Missouri rivers (Raynolds) : 145–174 (1869)

**69a** On the surface geology of the basin of the Great Lakes and the Valley of the Mississippi. Lyc N H N Y, An 9 : 213–234 (1869) Am Nat 4 : 193–218 (1870) *Abst,* Am J Sc (2) 49 : 111–114 (1870) ; Am Nat 2 : 444–445 (1868)

HAL MEADOW

**Newberry,** John Strong—Continued

**69b** On the flora and fauna of the Miocene Tertiary beds of Oregon and Idaho. Am Nat 3 : 446–447 (1869)

**70** The geological survey of Ohio, its progress in 1869 ; report of an address delivered to the legislature of Ohio, February 7, 1870. 60 pp [N Y 1870]

**70a** Preliminary geological map of Ohio. 13x11. [Ohio G S] 1870

**70b** (and **Worthen,** A. H.) Description of fossil vertebrates. Ill G S 4 : 343–374, il (1870)

**70c** On the earliest traces of man found in North America. Lyc N H N Y, Pr 1 : 2–5 (1870) Nature 2 : 366–367 (1870)

**70d** The ancient lakes of western America, their deposits and drainage. Lyc N H N Y, Pr 1 : 25–32 (1870) Nature 2 : 385–387 (1870)

**70e** [Paucity of organic remains in red-colored rocks.] Lyc N H N Y, Pr 1 : 36–37 (1870)

**70f** Marble beds of Vermont. Lyc N H N Y, Pr 1 : 62–63 (1870)

**70g** [On the cranium of a walrus obtained at Long Branch]. Lyc N H N Y, Pr 1 : 75 (1870)

**70h** The geological position of the remains of elephant and mastodon in North America. Lyc N H N Y, Pr 1 : 77–83 (1870) *Abst,* Am Nat 5 : 729–731 (1871) ; Nature 4 : 340 (1871)

**70i** On recent deep-sea dredgings. Lyc N H N Y, Pr 1 : 106–108 (1870)

**70j** The genesis of sandstones (with discussion by A. M. Edwards, B N. Martin, and C. A. Seely). Lyc N H N Y, Pr 1 : 131–134 (1870)

**70k** Remarkable gas wells in [Knox Co.] Ohio. Am Chemist 1 : 201–202 (1870)

**71** Report on the progress of the geological survey of Ohio in 1869. Ohio G S, [Rp Prog 1869], pt 1 : 3–53, map, Columbus 1871

**71a** Report of progress of the geological survey in 1870. Ohio G S, Rp Prog 1870 : 5–14 (1871)

**71b** Sketch of the structure of the lower Coal Measures in northeastern Ohio. Ohio G S, Rp Prog 1870 : 14–53 (1871)

**71c** [Explanation of the geological map of Ohio]. *In* Ohio, Secretary of State, An Rp 1870 : 186–194, map, Columbus 1871

**71d** The ancient lakes of western America ; their deposits and drainage. Am Nat 4 : 641–660 (1871) Can Nat n s 6 : 112–118 (1871) U S G S Wyo (Hayden), Prel Rp [4] : 329–339 (1871) *Also in* Hayden, F. V., Sun pictures of Rocky Mountain scenery ... : 135–150, N Y 1870 (?)

**71e** Fossil leaves from the Cretaceous sandstone of Fort Harker and fossil plants from the Miocene Tertiary of Oregon. Lyc N H N Y, Pr 1 : 148 (1871)

**Newberry,** John Strong—Continued.

**71f** On a piece of red sandstone containing impressions of leaves from Williamsburgh. Lyc N H N Y, Pr 1 : 149–150 (1871)

**71g** Fossil fishes from the Devonian rocks of Ohio. Lyc N H N Y, Pr 1 : 152–153 (1871)

**71h** On titaniferous iron ores. Lyc N H N Y, Pr 1 : 223–224 (1871)

**71i** Fossils from the prosphate beds of South Carolina. Lyc N H N Y, Pr 1 : 240–241 (1871)

**71j** [Anthracites of the Western States.] Lyc N H N Y, Pr 1 : 252 (1871)

**71k** On the gas wells of Ohio and Pennsylvania. Lyc N H N Y, Pr 1 : 266–270 (1871)

**72** (and **Andrews,** E. B.) Report of progress of the geological survey of Ohio for the year 1871. Two different editions, 12 pp [Columbus 1872]

**72a** Notes on American asphaltum. Am Chemist 2 : 427–428 (1872)

**73** The general geological relations and structure of Ohio. Ohio G S, Rp 1 pt 1 Geology : 1–167 (1873)

**73a** Report on the geology of Cuyahoga Co. ; ... Summit Co. Ohio G S, Rp 1 pt 1 Geology : 171–222, maps (1873)

**73b** Descriptions of fossil fishes. Ohio G S, Rp 1 pt 2 Paleontology : 245–255, il (1873)

**73c** Descriptions of fossil plants. Ohio G S, Rp 1 pt 2 Paleontology : 357–385, il (1873)

**73d** On Ohio and other gas wells. Am J Sc (3) 5 : 225–228 (1873)

**73e** [On quartz pebbles and boulders from Keyport, N. J.] Lyc N H N Y, Pr (2) [no 1] : 9–10 (1873)

**73f** The Salina group [Ohio]. Lyc N H N Y, Pr (2) [no 1] : 11–12 (1873)

**74** Geology of Ohio ; surface geology. Ohio G S, Rp 2 pt 1 Geology : 1–80, maps (1874)

**74a** The Carboniferous system. Ohio G S, Rp 2 pt 1 Geology : 81–180 (1874)

**74b** Report on the geology of Erie Co. and the islands ; ... of Lorain Co. Ohio G S, Rp 2 pt 1 Geology : 183–224, map (1874)

**74c** Circles of deposition in American sedimentary rocks. Am As, Pr 22 pt 2 : 185–196 (1874) *Abst,* Can Nat n s 7 : 163–164 (1874) ; Lyc N H N Y, Pr (2) no 4 : 122–124 (1874)

**74d** On the parallelism of coal seams. Am J Sc (3) 7 : 367–369 (1874) Cin Q J Sc 1 : 267–269 (1874)

**74e** On the lignites and plant beds of western America. Am J Sc (3) 7 : 399–404 (1874)

**74f** On the so-called land plants from the Lower Silurian of Ohio. Am J Sc (3) 8 : 110–113, il (1874) Cin Q J Sc 1 : 335–338 (1874)

**Newberry,** John Strong—Continued.

**74g** The iron resources of the United States. Int Rv 1 : 754–780 (1874)

**74h** Notes on the genus *Conchiopsis*, Cope. Ac N Sc Phila, Pr 1873 : 425–426 (1874)

**74i** Coals and lignites of the Western States and Territories. Lyc N H N Y, Pr (2) [no 2] : 9–10 (1874)

**74j** [On the horizon of the mammalian remains of the Ohio drift.] Lyc N H N Y, Pr (2) [no 2] : 12 (1874)

**74k** [On the distribution of copper deposits.] Lyc N H N Y, Pr (2) [no 2] : 16–17 (1874)

**74l** [The history of the class of fishes in the older rocks of North America.] Lyc N H N Y, Pr (2) [no 2] : 25–28 (1874)

**74m** On *Coelacanthus* from the Coal Measures of Linton, Ohio. Lyc N H N Y, Pr (2) [no 2] : 30–32 ; no 3 : 76–77 (1874)

**74n** (On the occurrence of chromic iron and serpentine in California). Lyc N H N Y, Pr (2) no 3 : 66 (1874)

**74o** [Remarks on the geology of western Texas.] Lyc N H N Y, Pr (2) no 3 : 69–70 (1874)

**74p** [On *Dicotyles compressus* from Columbus, Ohio.] Lyc N H N Y, Pr (2) no 3 : 77–78 (1874)

**74q** [On the age of lignite flora of the West.] Lyc N H N Y, Pr (2) no 3 : 78–79 (1874)

**74r** [On *Castoroides ohioensis* from Nashport, Ohio.] Lyc N H N Y, Pr (2) no 4 : 92–93 (1874)

**74s** [On the Lower Cretaceous of Long Island, N. Y.] Lyc N H N Y, Pr (2) no 4 : 127 (1874)

**74t** [The Linton coal bed of Ohio and its fauna.] Lyc N H N Y, Pr (2) no 4 : 134–135 (1874)

**74u** On the structure and origin of the Great Lakes. Lyc N H N Y, Pr (2) no 4 : 136–138 (1874)

**74v** [On *Dinichthys terrelli* from the Huron shale of Lorain Co., Ohio.] Lyc N H N Y, Pr (2) no 4 : 149–151 (1874)

**74w** Fossil plants from the Ohio coal basin. Cleveland Ac, Pr 1 : 26–53, il (1874)

**74x** Note on the vegetation of the drift. Cleveland Ac, Pr 1 : 76–80 (1874)

**74y** Analysis of Ohio coals. Cleveland Ac, Pr 1 : 80–82 (1874)

**75** Descriptions of fossil fishes. Ohio G S, Rp 2 pt 2 Paleontology : 1–64, il (1875)

**75a** On an asphaltic coal from the shale of the Huron River, Ohio, containing seams of sulphate of baryta. Lyc N H N Y, An 11 : 105–106 (1875)

**Newberry, John Strong**—Continued.

**76** Geological report. *In* Macomb, J. N., Report of the exploring expedition from Santa Fe, New Mexico, to the junction of the Grand and Green rivers of the Great Colorado of the West in 1859 ; U S Army, Eng Dp : 9–118, map, Wash 1876

**76a** Descriptions of the Carboniferous and Triassic fossils collected... *In* Macomb, J. N., Report of the exploring expedition from Santa Fe ... in 1859 ; U S Army, Eng Dp : 135–148, il 1876

**76b** The causes of the cold of the Ice Period. Pop Sc Mo 9 : 280–290 (1876)

**76c** Fossil fishes and footprints from the Trias of New Jersey (*abst*). Am Nat 10 : 191 (1876)

**76d** [On the origin of petroleum (*abst*).] Am Nat 10 : 316–317 (1876)

**77** [Description of] *Rhynchodus excavatus* Newberry. [Wis G S], G Wis 2 : 397 (1877)

**78** Review of the geological structure of Ohio. Ohio G S, Rp 3 pt 1 : 1–51 (1878)

**78a** Report on the geology of Tuscarawas Co. ; Columbiana Co. ; Portage Co. ; Stark Co. Ohio G S, Rp 3 pt 1 : 52–176, maps (1878)

**78b** Report on the geology of Jefferson Co. ; Mahoning Co. Ohio G S, Rp 3 pt 1 : 716–814 (1878)

**78c** Descriptions of new fossil fishes from the Trias. N Y Ac Sc, An 1 : 127–128 (1878)

**78d** Descriptions of new Paleozoic fishes. N Y Ac Sc, An 1 : 188–192 (1878)

**78e** The geological history of New York Island and harbor. Pop Sc Mo 13 : 641–660 (1878)

**78f** New fossil fishes. Science News 1 : 36–37 (1878)

**78g** Mooted points in American geology. Science News 1 : 38–40 (1878)

**79** (and others) Geological atlas of the State of Ohio. Scale 1 mile to inch. Ohio G S 1879

**79a** [Carboniferous fish remains from Harrison Co.] Ind G S, An Rp 8–9–10 : 341–349 (1879)

**79b** On the discovery of mineral wax, ozocerite, in Utah. Am J Sc (3) 17 : 340–341 (1879)

**79c** The geological survey of the fortieth parallel. Pop Sc Mo 15 : 302–317 (1879)

**79d** Silver deposits. Science News 1 : 211–212 (1879)

**80** The geological history of the North American flora. Torrey Bot Club, B 7 : 74–80 (1880) Sc Am Sup 10 : 3909–3910 (1880)

**80a** The origin and classification of ore deposits. Sch Mines Q 1 : 87–104 (1880) Kansas City Rv Sc 4 : 165–170, 200–205 (1880) Eng M J 29 : 421–422, 437–438 (1880)

**Newberry,** John Strong—Continued.

**80b** The genesis of our iron ores. Sch Mines Q 2 : 1–17 (1880) Eng M J 31 : 286–287, 298–300 (1881)

**80c** Report on the properties of the Stormont Silver Mining Company, at Silver Reef, Utah. Eng M J 30 : 269 (1880)

**81** The genesis and distribution of gold. Sch Mines Q 3 : 4–15 (1881) Eng M J 32 : 416–417, 433–434 (1881) Kansas City Rv Sc 5 : 617–619 (1882)

**81a** Geological facts recently observed in Montana, Idaho, Utah, and Colorado. N Y Ac Sc, Tr 1 : 4–8 (1881) Science (ed, Michels) 2 : 523–524 (1881)

**81b** The iron ores of southern Utah. Am Nat 15 : 410–412 (1881)

**81c** The Silver Reef sandstones. Eng M J 31 : 4–5 (1881)

**81d** American Cretaceous flora. Nature 24 : 191–192 (1881)

**82** The origin and relations of the carbon minerals. N Y Ac Sc, An 2 : 267–286 (1882) *Abst*, Tr 1 : 109–111 (1882)

**82a** On the geology of the region adjacent to the Mammoth Cave, Ky. N Y Ac Sc, Tr 1 : 65–66 (1882)

**82b** Hypothetical high tides as agents of geological change. N Y Ac Sc, Tr 1 : 80–85 (1882)

**82c** On the origin of crystalline iron ores (*abst*) [with discussion by A. A. Julien]. N Y Ac Sc, Tr 2 : 13–17 (1882) Eng M J 35 : 208 (1883)

**82d** On supposed Tertiary ammonites. Ac N Sc Phila, Pr 1882 : 194–195

**82e** On the origin and drainage of the basins of the Great Lakes. Am Ph Soc, Pr 20 : 91–95 (1882)

**83** On the physical conditions under which coal was formed. Sch Mines Q 4 : 169–173 (1883) Science 1 : 89–91 (1883) Ohio M J 1 : 168–172 (1883)

**83a** The origin of the carbonaceous matter in bituminous shales. N Y Ac Sc, An 2 : 357–367 (1883)

**83b** [On the coal beds of Massillon, Ohio.] N Y Ac Sc, Tr 2 : 87–88 (1883)

**83c** The bontany and geology of the country bordering the Rio Grande, in Texas and Chihuahua (*abst*). N Y Ac Sc, Tr 2 : 90–95 (1883)

**83d** Some interesting remains of fossil fishes, recently discovered [*Mylostoma*]. N Y Ac Sc, Tr 2 : 144–147 (1883)

**83e** The evidences of ancient glaciation in North America, and their bearing on the theory of an ice period (*abst*). N Y Ac Sc, Tr 2 : 155–159 (1883)

**83f** Brief descriptions of fossil plants, chiefly Tertiary, from western North America. U S Nat Mus, Pr 5 : 502–514 (1883)

**83g** The ancient glaciation of North America, its extent, character, and teachings (*abst*). Am As, Pr 32 : 198–199 (1884) Science 2 : 316 (1883)

**83h** The eroding power of ice (*abst*). Am As, Pr 32 : 200–201 (1884) Science 2 : 320 (1883)

**84** The deposition of ores. Sch Mines Q 5 : 329–344 (1884)

**84a** The drift deposits of Indiana. Ind, Dp G N H, An Rp 14 pt 1 : 85–97 (1884)

**84b** Description of *Ctenacanthus wrighti*, n. sp. N Y St Mus, An Rp 35 : 206, il (1884)

**84c** High tides in geological history. Science 3 : 402 (1884)

**84d** [Remarks on the glacial history of North America (*abst*).] Science 4 : 258–259 (1884)

**84e** Phases in the evolution of the North American continent (*abst*). Brit As, Rp 54 : 719–720 (1885) G Mag (3) 1 : 522–523 (1884)

**84f** On the recent discovery of new and remarkable fossil fishes in the Carboniferous and Devonian rocks of Ohio and Indiana (*abst*). Brit As, Rp 54 : 724–725 (1885) G Mag (3) 1 : 523–524 (1884)

**85** The eroding power of ice. Sch Mines Q 6 : 142–153 (1885)

**85a** Notes on the surface geology of the country bordering the Northern Pacific Railroad. Am J Sc (3) 30 : 337–346 (1885)

**85b** Saporta's problematical organisms of the ancient seas. Science 5 : 507–508 (1885)

**85c** Descriptions of some peculiar screwlike fossils from the Chemung rocks [*Spiraxis*]. N Y Ac Sc, An 3 : 217–220, il (1885)

**85d** Notes on the geology and botany of the country bordering the Northern Pacific Railroad. N Y Ac Sc, An 3 : 242–270 (1885)

**85e** [On copper in Triassic rocks.] N Y Ac Sc, Tr 3 : 18–19 (1885)

**85f** The relations of *Dinichthys* as shown by complete crania recently discovered by Mr. Jay Terrell in the Huron shale of Ohio (*abst*). N Y Ac Sc, Tr 3 : 20 (1885)

**85g** Some peculiar screwlike casts from the sandstones of the Chemung group of New York and Pennsylvania [*Spiraxis*]. N Y Ac Sc, Tr 3 : 33–34 (1885)

**85h** The erosive power of glacier ice and its influence on the topography of North America (*abst*). N Y Ac Sc, Tr 3 : 51–52 (1855)

**85i** On the American Trias. N Y Ac Sc, Tr 5 : 18–19 (1885)

**85j** Description of some gigantic placoderm fishes recently discovered in the Devonian of Ohio. N Y Ac Sc, Tr 5 : 25–28 (1885)

**85k** Cone-in-cone. G Mag (3) 2 : 559–560 (1885)

**85l** The salt deposits of New York. Eng M J 39 : 247 (1885)

**86** Earthquakes. Sch Mines Q 8 : 1–19 (1886) N Y Ac Sc, Tr 6 : 18–35 (1887)

**Newberry,** John Strong—Continued.

**86a** The flora of the Amboy clays [New Jersey]. Torrey Bot Club, B 13 : 33–37 (1886)

**86b** Description of a species of *Bauhinia* from the Cretaceous clays of New Jersey. Torrey Bot Club, B 13 : 77–78, il (1886)

**86c** [On the Permian in North America]. Am J Sc (3) 31 : 154 (1886)

**86d** North America in the Ice Period. Pop Sc Mo 30 : 1–10, map (1886)

**86e** [On Edward Hull's memoir on the geological age of the north Atlantic Ocean.] N Y Ac Sc, Tr 5 : 77–79 (1886)

**86f** The Cretaceous flora of North America. N Y Ac Sc, Tr 5 : 133–137 (1886)

**86g** Discusiones acerca del hombre del Peñón. La Naturaleza 7 : 284–285 (1886)

**87** Geological notes; the Great Falls coal field, Mont.; kersantite; grahamite in Colorado; the origin of graphite. Sch Mines Q 8 : 327–335 (1887)

**87a** The ancestors of the tulip tree. Torrey Bot Club, B 14 : 1–7, il (1887)

**87b** Some recent discoveries of rock salt in western New York. N Y Ac Sc, Tr 4 : 55–57 (1887)

**87c** The fauna and flora of the Trias of New Jersey and the Connecticut Valley. N Y Ac Sc, Tr 6 : 124–128 (1887)

**87d** *Coelosteus*, a new genus of fishes from the Lower Carboniferous limestone of Illinois (*abst*). N Y Ac Sc, Tr 6 : 137–138 (1887)

**87e** A new meteorite from Tennessee. N Y Ac Sc, Tr 6 : 160–161 (1887)

**87f** Description of a new species of *Titanichthys* (*abst*). N Y Ac Sc, Tr 6 : 164–165 (1887)

**87g** Professor Newberry on earthquakes. Science 9 : 91–92 (1887)

**88** Fossil fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut Valley. U S G S, Mon 14 : xiv, 152 pp, il (1888)

**88a** Rhaetic plants from Honduras. Am J Sc (3) 36 : 342–351, il (1888)

**88b** Sur les restes de grands poissons fossils récemment découverts dans les roches dévoniennes de l'Amérique du Nord [*Dinichthys, Titanichthys*]. Int G Cong, III, Berlin 1885, C R : 11–14 (1888)

**88c** The future of gold and silver. Sch Mines Q 9 : 97–109 (1888)

**88d** The coals of Colorado. Sch Mines Q 9 : 327–341 (1888)

**88e** Geological notes: the origin of the loess; marble deposits of the western United States. Sch Mines Q 10 : 66–72 (1888)

**88f** The Colorado oil fields [Florence oil field]. Eng M J 46 : 498–499 (1888) Sc Am Sup 27 : 10948–10949 (1889)

**88g** On the structure and relations of *Edestus*, with description of a gigantic new species. N Y Ac Sc, An 4 : 113–122, il (1888)

**Newberry,** John Strong—Continued.

**88h** Triassic plants from Honduras. N Y Ac Sc, Tr 7 : 113–115 (1888)

**88i** [On the origin of rock-salt deposits.] N Y Ac Sc, Tr 7 : 127–128 (1888)

**88j** Note on a new species of *Rhizodus* from the St. Louis limestone at Alton, Ill. N Y Ac Sc, Tr 7 : 165 (1888)

**88k** On the fossil fishes of the Erie shale of Ohio (*abst*). N Y Ac Sc, Tr 7 : 178–180 (1888)

**88l** The new oil field of Colorado and its bearing on the question of the genesis of petroleum [Florence field]. N Y Ac Sc, Tr 8 : 25–28 (1888)

**88m** The oil fields of Colorado (*abst*). Am As, Pr 37 : 186–187 (1889) Pop Sc Mo 34 : 142 (1888)

**89** The Paleozoic fishes of North America. U S G S, Mon 16 : 340 pp, il (1889)

**89a** The [Florence] oil field of Colorado. Sch Mines Q 10 : 97–102 (1889)

**89b** The Laramie group, its geological relations, its economic importance, and its fauna and flora. N Y Ac Sc, Tr 9 : 27–32 (1889) *Abst*, Am G 5 : 118 (1890); (with discussion by E. D. Cope, Angelo Heilprin, J. B. Tyrrell, and L. F. Ward) G Soc Am, B 1 : 524–532 (1890)

**89c** The rock-salt deposits of the Saline group in western New York. N Y Ac Sc, Tr 9 : 39–45 (1889)

**89d** Devonian plants from Ohio. Cin Soc N H, J 12 : 48–56, il (1889)

**89e** The history of the Great American Lakes (*abst*). Eng M J 48 : 201–202 (1889) Sc Am Sup 28 : 11505–11506 (1889)

**90** Notes on the geology of the Aspen mining district [Colo.]. Am I M Eng, Tr 18 : 273–278 (1890)

**90a** On the genus *Oracanthus* Agassiz. N Y Ac Sc, Tr 9 : 131–133 (1890)

**90b** On *Dendrophycus triassicus* Newb. Am Nat 24 : 1068–1069 (1890)

**90c** The first oil well; the birth of a great industry. Harper's Mag 81 : 723–729 (1890)

**91** The flora of the Great Falls coal field, Mont. Am J Sc (3) 41 : 191–201, il (1891)

**91a** The genus *Sphenophyllum*. Cin Soc N H, J 13 : 212–217, il (1891)

**92** American Devonian fishes found in Belgium. Am Nat 26 : 1025 (1892)

**95** The flora of the Amboy clays, edited by Arthur Hollick. U S G S, Mon 26 : 260 pp, il (1895)

**97** New species and a new genus of American Paleozoic fishes... N Y Ac Sc, Tr 16 : 282–304, il (1897)

**98** The later extinct floras of North America, edited by Arthur Hollick. U. S. G S, Mon 35 : 295 pp, il (1898)

**Newberry**, John Strong—Continued.

See also Brainerd, 53a; Britton (N L), 82; Cleve, 81; Elliott (A H), 85; Furman, 81; Julien, 81, 82, 83; Powell, 89a; Smith (E A), 88a; Warring, 85; White (D), 90; Williams (G H), 90e; Winchell (N H), 88g

**Newberry**, Spencer Baird.

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**71a** The geology of Highland Co. Ohio G S, Rp Prog 1870 : 253–310, map (1871)

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**84j** The horizons of petroleum and inflammable gas in Ohio (*abst*). Am As, Pr 33 : 397–398 (1885) Science 4 : 325–326 (1884)

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**88a** The origin and accumulation of petroleum and natural gas. Ohio G S, Rp 6 : 60–100 (1888)

**88b** The Trenton limestone as a source of oil and gas in Ohio. Ohio G S, Rp 6 : 101–310 (1888)

**88c** The Berea grit as a source of oil and gas in Ohio. Ohio G S, Rp 6 : 311–409, map (1888)

**88d** The Ohio shale as a source of oil and gas in Ohio. Ohio G S, Rp 6 : 410–442 (1888)

**88e** Gypsum or land plaster in Ohio. Ohio G S, Rp 6 : 696–702 (1888)

**88f** The production of lime in Ohio. Ohio G S, Rp 6 : 703–771 (1888)

**88g** The drift deposits of Ohio. Ohio G S, Rp 6 : 772–782 (1888)

**88h** Supplemental report on the new gas fields and oil fields of Ohio. Ohio G S, 6 : 783–792 (1888)

**88i** Geological map of Ohio. Scale, 8 miles to 1 inch. Accompanies Ohio G S, Rp 6 (1888)

**88j** Map of the oil and gas fields of Allen, Auglaize, and Mercer cos., 1888. Scale, 2 miles to 1 inch. Accompanies Ohio G S, Rp 6 (1888) *Also in* First An Rp (1890)

**88k** Map of the oil and gas fields of Hancock and Wood cos. Scale, 2 miles to 1 inch. Accompanies Ohio G S, Rp 6 (1888) *Also in* First An Rp (1890)

**88l** Gypsum or land plaster in Ohio. U S G S, Min Res 1887 : 596–600 (1888)

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**93b** The clays of Ohio, their origin, composition, and varieties. Ohio G S, Rp 7 : 45–68 (1893)

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**93d** Coal fields of Ohio. Maps showing outcrop boundaries of principal coal seams. Scale, maps 1–9, 2 miles to 1 inch ; map 10, 10 miles to 1 inch. Accompany Ohio G S, Rp 7 (1893)

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**93b** (with **Andreae,** A.) Tiefencontacte an den intrusiven Diabasen von New Jersey. Naturh-med Ver Heidelberg, Verh (N F) 5 : 16–27 (1893) *Rv,* N Jb 1893, I : 505

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**91b** Meniscotheridae and Chalicotherioidea. Am Nat 25 : 911–912 (1891)

**92** (and **Wortman,** J. L.) Fossil mammals of the Wasatch and Wind River beds. Am Mus N H, B 4 : 81–147, il (1892)

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**92b** The ancestry of *Chalicotherium*. Science 19 : 276 (1892)

**92c** Sur la découverte du *Palaeonictis* en Amérique. Soc G France, B (3) 20 : 434–436, il (1892)

**92d** Nomenclature of mammalian molar cusps. Am Nat 26 : 436–437 (1892)

**92e** Is *Meniscotherium* a member of the Chalicotherioidea? Am Nat 26 : 506–509, il (1892)

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**93a** *Artionyx*, a new genus of Ancylopoda. Am Mus N H, B 5 : 1–18, il (1893)

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**93b** *Aceratherium tridactylum* from the lower Miocene of Dakota. Am Mus N H, B 5 : 85–86 (1893)

**93c** Fossil mammals of the upper Cretaceous beds. Am Mus N H, B 5 : 311–330, il (1893)

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**93e** Recent researches upon the succession of the teeth in mammals. Am Nat 27 : 493–508 (1893)

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**95c** Vertebrate paleontology in the American Museum. Science n s 2 : 178–179 (1895)

**96** The cranial evolution of *Titanotherium.* Am Mus N H, B 8 : 157–197, il (1896)

**96a** Prehistoric quadrupeds of the Rockies. Century Mag 52 : 705–715, il (1896)

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**97** The Huerfano lake basin, southern Colorado, and its Wind River and Bridger fauna. Am Mus N H, B 9 : 247–258 (1897)

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**97c** Trituberculy; a review dedicated to the late Professor Cope. Am Nat 31 : 993–1016, il (1897)

**97d** The origin of the teeth of the Mammalia. Science n s 5 : 576–577 (1897)

**97e** The Ganodonta or primitive edentates with enamelled teeth. Science n s 5 : 611–612 (1897)

**97f** Edward D. Cope. Science n s 5 : 705–717, port (1897)

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**97j** Reconstruction of *Phenacodus primaevus,* the most primitive ungulate (*abst*). Am Nat 31 : 980 (1897) Am As, Pr 46 : 238 (1898)

**98** (and others) Fossil vertebrates in the American Museum of Natural History. Articles collected from the American Museum Bulletins. Vols. I–VI, N Y 1898–1918

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**98b** A complete skeleton of *Teleoceras fossiger;* notes upon the growth and sexual characters of this species. Am Mus N H, B 10 : 51–59, il (1898) Science n s 7 : 554–557, il (1898)

**98c** A complete skeleton of *Coryphodon radians;* notes upon the locomotion of this animal. Am Mus N H, B 10 : 81–91, il (1898)

**98d** Remounted skeleton of *Phenacodus primaevus;* comparison with *Euprotogonia.* Am Mus N H, B 10 : 159–164, il (1898)

**98e** Evolution of the Amblypoda; Part I, Taligrada and Pantodonta. Am Mus N H, B 10 : 169–218, il (1898)

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**98g** The origin of the Mammalia. Am Nat 32 : 309–334, il (1898)

**98h** Paleontological problems. Science n s 7 : 145–147 (1898)

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**98l** A complete skeleton of *Coryphodon radians;* notes upon the locomotion of this animal. Science n s 7 : 585–588, il (1898)

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**98m** Models of extinct vertebrates. Science n s 7 : 841–845, il (1898)

**98n** On the presence of a frontal horn in *Aceratherium incisivum* Kaup. (*abst*). Science n s 8 : 850 (1898)

**98o** Reconstruction and model of *Phenacodus primaevus* Cope (*abst*). Brit As, Rp 67 : 684 (1898)

**98p** On skeletons and restorations of Tertiary Mammalia (*abst*). Brit As, Rp 67 : 684 (1898)

**98q** The origin of the Mammalia (*abst*). Brit As, Rp 67 : 686–687 (1898)

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**99b** The origin of mammals. Int Cong Zool, 4th, Pr : 70–71, 413–419 (1899) Am J Sc (4) 7 : 92–96 (1899) *Abst*, Science n s 8 : 358 (1898)

**99c** Restoration of extinct vertebrates from the American Museum of Natural History. Int Cong Zool, 4th, Pr : 174 (1899)

**99d** Frontal horn on *Aceratherium incisivum*. Science n s 9 : 161–162 (1899)

**99e** Additional characters of *Diplodocus* (*abst*). Science n s 9 : 315–316 (1899)

**99f** Upon the structure of *Tylosaurus dyspelor*, including the cartilaginous sternum (*abst*). Science n s 9 : 913 (1899)

**99g** A skeleton of *Diplodocus* recently mounted in the American Museum. Science n s 10 : 870–874, il (1899)

**00** Fore and hind limbs of carnivorous and herbivorous dinosaurs from the Jurassic of Wyoming. Am Mus N H, B 12 : 161–172, il (1900)

**00a** Phylogeny of the rhinoceroses of Europe. Am Mus N H, B 13 : 229–267, il (1900)

**00b** *Oxyæna* and *Patriofelis* restudied as terrestrial creodonts. Am Mus N H, B 13 : 269–279, il (1900)

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**90** Origin of normal faults. Am J Sc (3) 39 : 51–52 (1890)

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HAL MEADOW

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**58f** Coal fields of the United States and British provinces. G Pa 2 : 942–1019, map (1858)

**58g** Geological map of the State of Pennsylvania ... Scale 5 miles to 1 inch. [Pa G S 1858]

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**80** Table of the geological formations found in Virginia and West Virginia. The Virginias 1:14–15 (1880); 3:61 (1882)

**80a** The iron ores of Virginia and West Virginia. The Virginias 1:128–130, 138–140, 152–153, 160–161, 170–171, 174–175, 182–183, 186–188 (1880)

**81** Infusorial stratum and associated Tertiary beds in the vicinity of Richmond, Va. The Virginias 2:58–59 (1881)

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**08b** The Tertiary Tenthredinoidea of the expedition of 1908 to Florissant, Colo. Am Mus N H, B 24:591–595, il (1908)

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HAL MEADOW

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HAL MEADOW

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**78** General geological map of Colorado. Surveyed in 1873–6. Scale 12 miles to 1 inch. n d [1878] [Also in Atlas of Colorado]

**79** Economic map of portions of Wyoming, Idaho, and Utah. Scale 8 miles to 1 inch. April 1879. [Also in 12th An Rp]

**83** [Geologic map of] part of central Wyoming. Surveyed in 1877. Scale 4 miles to 1 inch. n d [1883?] [Also in 12th An Rp]

**U. S. Geological and Geographical Survey of the Territories**—Contd.

**83a** [Geologic map of] parts of western Wyoming and southeastern Idaho. Scale 4 miles to 1 inch. n d [1883?] [Also in 12th An Rp]

**83b** [Geologic map of] parts of western Wyoming, southeastern Idaho, and northeastern Utah. Surveyed in 1877. Scale 4 miles to 1 inch. n d [1883?] [Also in 12th An Rp]

**83c** Geological map of portions of Wyoming, Idaho, and Utah. Scale 8 miles to 1 inch. n d [1883?] [Also in 12th An Rp]

**83d** Preliminary geological map of the Yellowstone National Park. Surveyed in 1878. Scale 2 miles to 1 inch. n d [1883?] [Also in 12th An Rp]

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**72** [Geologic] map of the sources of Snake River with its tributaries... Scale 5 miles to 1 inch. n d [1872]

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**94l** The Madison type of drumlins. Am G 14 : 69–83, map (1894) ; *abst,* 13 : 222–223 (1894) *Abst,* Minn, Univ, Q B 2 : 93 (1894)

**94m** Tertiary and early Quaternary baseleveling in Minnesota, Manitoba, and northwestward. Am G 14 : 235–246 ; *abst* 199 (1894) *Abst,* G Soc Am, B 6 : 17–20 (1894)

**Upham, Warren**—Continued.

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**95f** Secular changes of Arctic climate. Am G 15 : 254–259 (1895)

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**96n** Interglacial change of course, with gorge erosion, of the St. Croix River in Minnesota and Wisconsin (*abst*). Am G 18 : 223 (1896) Science n s 4 : 384–385 (1896)

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**96p** [On the origin of lake basins in the drift region (*abst*)]. Minn Ac N Sc, B 4 : 40 (1896)

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**97b** Relation of the Lafayette or Ozarkian uplift of North America to glaciation. Am G 19 : 339–343 (1897)

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**97d** The glacial Lake Hamline [Minn.] (*abst*). Am G 19 : 423 (1897)

**97e** Recent estimates of geologic time. Am G 20 : 268–270 (1897)

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**97g** The topography and glacial geology of the city of St. Paul [Minn.]. Science n s 5 : 487–488 (1897)

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**98a** Geology and geography at the American Association meeting. Science n s 8 : 462–471, 501–506 (1898)

**98b** Fluctuations of North American glaciation shown by interglacial soils and fossiliferous deposits (*abst*). Am As, Pr 47 : 297 (1898) Am G 22 : 258 (1898) Science n s 8 : 470 (1898)

**98c** Time of erosion of the upper Mississippi, Minnesota, and St. Croix valleys (*abst*). Am As, Pr 47 : 297–298 (1898) Science n s 8 : 470 (1898) Am G 22 : 258–259 (1898)

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**99c** Modified drift and the Champlain epoch. Am G 23 : 319–324 (1899)

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HAL MEADOW

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**11b** Chains of lakes in Martin Co., Minn., as evidence of extensive recession and readvance of the ice-sheet (*abst*). Science n s 33 : 467–468 (1911)

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HAL MEADOW

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**82b** Fossils of the Indiana rocks, no. 2. Ind, Dp G N H, An Rp 11 : 347–401, il (1882)

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**83** Contributions to invertebrate paleontology, No. 2; Cretaceous fossils of the Western States and Territories. U S G Geog S Terr (Hayden), An Rp 12 pt 1 : 5–39, il (1883, advance print 1880)

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**83i** The molluscan fauna of the Truckee group, including a new form. U S Nat Mus, Pr 5 : 99–101, il (1883)

**83j** On the *Macrocheilus* of Phillips, *Plectostylus* of Conrad, and *Soleniscus* of Meek and Worthen. U S Nat Mus, Pr 6 : 184–187, il (1883)

**83k** A review of the nonmarine fossil Mollusca of North America. U S G S, An Rp 3 : 403–550, il (1883)

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**83m** Late observations concerning the molluscan fauna and the geographical extent of the Laramie group. Am J Sc (3) 25 : 207–209 (1883)

**83n** On the existence of a deposit in northeastern Montana and northwestern Dakota that is possibly equivalent with the Green River group. Am J Sc (3) 25 : 411–414 (1883)

**83o** The burning of lignite *in situ*. Am J Sc (3) 26 : 24–26 (1883)

**83p** On the commingling of ancient faunal and modern floral types in the Laramie group. Am J Sc (3) 26 : 120–123 (1883)

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**87d** On the Cretaceous formations of Texas and their relation to those of other portions of North America. Ac N Sc Phila, Pr 1887 : 39–47

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**88a** On the occurrence of later Cretaceous deposits in Iowa. Am G 1 : 221–227, il (1888)

**88b** On the relation of the Laramie group to earlier and later formations. Am J Sc (3) 35 : 432–438 (1888)

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**88e** [On the fauna of the Permian in Baylor, Archer, and Wichita cos., Tex.]. Am Nat 22 : 926 (1888)

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**89c** The Lower Cretaceous of the Southwest and its relation to the underlying and overlying formations. Am J Sc (3) 38 : 440–445 (1889) ; 39 : 70 (1890)

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**91** The Texas Permian and its Mesozoic types of fossils. U S G S, B 77 : 51 pp, il (1891)

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**92** On the Bear River formation, a series of strata hitherto known as the Bear River Laramie. Am J Sc (3) 43 : 91–97 (1892)

**93** The relation of biology to geological investigation. Smiths Inst, An Rp 1892, Rp U S Nat Mus : 245–368 (1893)

**93a** Memoir of Ferdinand Vandiveer Hayden, 1839–1887. Nat Ac Sc, Biog Mem 3 : 395–413, port (1893)

**94** Notes on the invertebrate fauna of the Dakota formation, with descriptions of new molluscan forms. U S Nat Mus, Pr 17 : 131–138, il (1894)

**95** The Bear River formation and its characteristic fauna. U S G S, B 128 : 108 pp, map, il (1895)

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**96** Biographical sketch of Fielding Bradford Meek. Am G 18 : 337–350, port (1896)

**02** Memoir of George Engelmann, 1809–1884. Nat Ac Sc, Biog Mem 4 : 1–21 (1902)

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**05a** The relation of phylogenesis to historical geology. Science n s 22 : 105–113 (1905)

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**92** The Cretaceous at Gay Head, Marthas Vineyard, [Mass.] Science 20 : 332–333 (1892)

**93** Flora of the outlying Carboniferous basins of southwestern Missouri. U S G S, B 98 : 139 pp, il (1893)

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**95** The Pottsville series along New River, W. Va. G Soc Am, B 6 : 305–320 (1895)

**96** Report on the fossil plants from the Hindostan whetstone beds in Orange Co., Ind. Ind, Dp G N Res, An Rp 20 : 354–355 (1896)

**96a** The development of exogenous structure in the Paleozoic lycopods. Science n s 3 : 754–759 (1896)

**96b** Some new forms of Paleozoic algae from the central Appalachian region (*abst*). Science n s 3 : 331 (1896)

**96c** The thickness and equivalence of some basal Coal Measure sections along the eastern margin of the Appalachian basin (*abst*). Science n s 3 : 534–535 (1896) Am G 17 : 266 (1896)

**97** Age of the lower coals of Henry County, Mo. G Soc Am, B 8 : 287–304 (1897)

**98** *Omphalophloios,* a new lepidodendroid type. G Soc Am, B 9 : 329–342, il (1898) *Abst,* Science n s 7 : 80 (1898)

**98a** (and **Schuchert,** C.) Cretaceous series of the west coast of Greenland. G Soc Am, B 9 : 343–368, map (1898) *Abst,* Science n s 7 : 52–53 (1898)

**98b** The probable age of the McAlester coal group (*abst*). Science n s 7 : 612 (1898)

**99** Fossil flora of the lower Coal Measures of Missouri. U S G S, Mon 37 : 467 pp, il (1899)

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**01a** Age of the coals at Tipton, Blair Co., Pa. G Soc Am, B 12 : 473–477 (1901)

**01b** Some paleobotanical aspects of the upper Paleozoic in Nova Scotia. Can Rec Sc 8 : 271–280 (1901) *Abst,* Science n s 12 : 885 (1900)

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**01d** Mr. Lacoe's relations to science. Wyoming Hist G Soc, Pr 6 : 55–60 (1901)

**02** (and **Campbell,** M. R.) The bituminous coal field of Pennsylvania. U S G S, An Rp 22 pt 3 : 127–200, map (1902)

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**02c** Stratigraphy vs. paleontology in Nova Scotia. Science n s 16 : 232–235 (1902)

**03** Summary of fossil plants recorded from the upper Carboniferous and Permian formations of Kansas. U S G S, B 211 : 85–117 (1903)

**03a** Memoir of Ralph Dupuy Lacoe. G Soc Am, B 13 : 509–515 (1903)

**03b** An anthracite coal field three and a half hours west of Washington [D. C.] Science n s 17 : 387 (1903)

**03c** Problematic fossils supposed to be seaweeds from the Hudson group (*abst*). Science n s 17 : 264 (1903)

**03d** Age of the Mercer group (*abst*). Science n s 17 : 942 (1903)

**03e** (with **Adams,** G. I.) Stratigraphy and paleontology of the upper Carboniferous rocks of the Kansas section. U S G S, B 211 : 123 pp, maps (1903)

**04** Deposition of the Appalachian Pottsville. G Soc Am, B 15 : 267–282, map (1904) *Abst,* Science n s 19 : 24, 532 (1904)

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**05b** The occurrence of glacial epochs in Paleozoic time (*abst*). Science n s 22 : 335 (1905)

**05c** The age of the Wise and Harlan formations of southwestern Virginia (*abst*). Science n s 22 : 335–336 (1905)

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**93** Notes on the *Ammonites* of the Cretaceous rocks of the district of Athabasca, with descriptions of four new species. R Soc Can, Pr Tr 10, iv : 111–121, il (1893)

**93a** Notes on the Gastropoda of the Trenton limestone of Manitoba, with a description of one new species. Can Rec Sc 5 : 317–328, il (1893)

**93b** Descriptions of two new species of *Ammonites* from the Cretaceous rocks of the Queen Charlotte Islands. Can Rec Sc 5 : 441–446, il (1893)

**94** The Cretaceous system in Canada. R Soc Can, Pr Tr 11, iv : 3–19 (1894)

**94a** Note on the recent discovery of large *Unio*-like shells in the Coal Measures at the South Joggins, N. S. R Soc Can, Pr Tr 11, iv : 21–24, il (1894)

**95** Revision of the fauna of the Guelph formation of Ontario, with descriptions of a few new species. Can G S, Paleozoic Foss 3 : 45–109, il (1895)

**95a** Systematic list, with references, of the fossils of the Hudson River or Cincinnati formation at Stony Mountain, Manitoba. Can G S, Paleozoic Foss 3 : 111–128 (1895)

**95b** Notes on some of the Cretaceous fossils collected during Captain Palliser's explorations in British North America in 1857–60. R Soc Can, Pr Tr (2) 1, iv : 101–117, il (1895)

**95c** On some fossils from the Nanaimo group of the Vancouver Cretaceous. R Soc Can, Pr Tr (2) 1, iv : 119–133, il (1895)

**95d** Notes on some fossils from the Cretaceous rocks of British Columbia with descriptions of two species that appear to be new. Can Rec Sc 6 : 313–318, il (1895)

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**96** Descriptions of eight new species of fossils from the (Galena) Trenton limestones of Lake Winnipeg and the Red River valley. Can Rec Sc 6 : 387–397 (1896)

**96a** Canadian stromatoporoids. Can Rec Sc 7 : 129–146 (1896)

**97** The fossils of the Galena-Trenton and Black River formations of Lake Winnipeg and its vicinity. Can G S, Paleozoic Foss 3 : 129–242, il (1897)

**97a** Description of a new genus and species of cystideans from the Trenton limestone at Ottawa [Ont.]. Can Rec Sc 7 : 287–292, 395–396, il (1897)

**98** On some additional or imperfectly understood fossils from the Hamilton formation of Ontario, with a revised list of the species therefrom. Can G S, Contr Can Pal 1 : 361–418, il (1898)

**98a** Revision of the nomenclature of some of the species described or enumerated in previous parts of this volume, and adidtional notes on others, necessitated by the progress of paleontological researches. Can G S, Contr Can Pal 1 : 419–427 (1898)

**98b** On some remains of a sepia-like cuttle-fish from the Cretaceous rocks of the South Saskatchewan. Can Rec Sc 7 : 459–461, il (1898)

**98c** Note on a fish tooth from the upper Arisaig series of Nova Scotia. Can Rec Sc 7 : 461–462, il (1898) *Abst,* Brit As, Rp 67 : 656–657 (1898)

**98d** On some fossil Cephalopoda in the museum of the Geological Survey of Canada, with descriptions of eight species that appear to be new. Ottawa Nat 12 : 116–127 (1898)

**99** The Devonian system in Canada. Am As, Pr 48 : 193–223 (1899) Am G 24 : 210–240 (1899) Science n s 10 : 402–412, 430–438 (1899) *Abst,* Can Rec Sc 8 : 195–198 (1900)

**99a** Recent discovery of rocks of the age of the Trenton formation at Akpatok Island, Ungava Bay, Ungava. Am J Sc (4) 7 : 433–434 (1899)

**00** On some additional or imperfectly understood fossils from the Cretaceous rocks of the Queen Charlotte Islands, with a revised list of the species from those rocks. Can G S, Mesozoic Foss 1 : 263–307, il (1900)

**01** Description of a new species of *Unio* from the Cretaceous rocks of the Nanaimo field, V[ancouver] I[sland]. Ottawa Nat 14 : 177–179, il (1901)

**01a** Note on a supposed new species of *Lytoceras* from the Cretaceous rocks at Denman Island, in the Strait of Georgia. Ottawa Nat 15 : 31–32 (1901)

**02** On the genus *Panenka* Barrande, with a description of a second species of that genus from the Devonian rocks of Ontario. Ottawa Nat 15 : 263–265, il (1902)

**Whiteaves**, Joseph Frederick—Contd.

**02a** On the genus *Trimerella,* with descriptions of two supposed new species of that genus from the Silurian rocks of Keewatin. Ottawa Nat 16 : 139–143, il (1902)

**03** On some additional fossils from the Vancouver Cretaceous, with a revised list of the species therefrom. Can G S, Mesozoic Foss 1 : 309–415, il (1903)

**03a** Description of a fossil *Cyrena* from Alberta. Ottawa Nat 16 : 231–233, il (1903)

**03b** Crania of extinct bisons from the Klondike Creek gravels. Ottawa Nat 16 : 240–241 (1903)

**03c** Description of a new species of *Matheria* (*M. brevis*) from the Trenton limestone at Ottawa. Ottawa Nat 17 : 32–34, il (1903) G Mag (4) 10 : 358–359, il (1903)

**03d** Description of a species of *Cardioceras* from the Crows Nest coal fields. Ottawa Nat 17 : 65–67, il (1903)

**03e** Notes on some Canadian specimens of "*Lituites undatus.*" Ottawa Nat 17 : 117–122 (1903)

**03f** Additional notes on some Canadian specimens of "*Lituites undatus.*" Ottawa Nat 17 : 161–163 (1903)

**04** Preliminary list of fossils from the Silurian (Upper Silurian) rocks of the Ekwan River, and Sutton Mill lakes, Keewatin ... with descriptions of such species as appear to be new. Can G S, An Rp 14 : F 38–59 (1904)

**04a** The Canadian species of *Trocholites.* Ottawa Nat 18 : 13–18 (1904)

**04b** Description of a new genus and species of rugose corals from the Silurian rocks of Manitoba. Ottawa Nat 18 : 113–114 (1904)

**04c** *Uintacrinus* and *Hemiaster* in the Vancouver Cretaceous. Am J Sc (4) 18 : 287–289 (1904)

**05** Notes on the apical end of the siphuncle in some Canadian Endoceratidae, with descriptions of two supposed new species of *Nanno.* Am G 35 : 23–30, 324, il (1905)

**06** The fossils of the Silurian (Upper Silurian) rocks of Keewatin, Manitoba, the northeastern shore of Lake Winnipegosis, and the lower Saskatchewan River. Can G S, Pal Foss 3 : 243–298, il (1906)

**06a** The Canadian species of *Plectoceras* and *Barrandeoceras.* Can G S, Pal Foss 3 : 299–312, il (1906)

**06b** Illustrations of seven species of fossils from the Cambrian, Cambro-Silurian, and Devonian rocks of Canada. Can G S, Pal Foss 3 : 313–325, il (1906)

**06c** Revised list of the fossils of the Guelph formation of Ontario. Can G S, Pal Foss 3 : 327–340 (1906)

**Whiteaves,** Joseph Frederick—Contd.

**06d** Paleozoic fossils; Appendix; Errata et corrigenda. Can G S, Pal Foss 3: 341–345 (1906)

**06e** Notes on *Cyrtoceras cuneatum.* Ottawa Nat 20: 133–134, il (1906)

**07** Illustrations of the fossil fishes of the Devonian rocks of Canada; Part III. Supplementary notes. R Soc Can, Pr Tr (3) 1 iv: 245–275, il (1907)

**07a** Description of a Canadian species of *Peltoceras.* Ottawa Nat 21: 80–82, il (1907)

**08** Notes on the Pelecypoda or bivalve Mollusca of the Chazy formation in Canada, with descriptions of one new genus and four new species from the Chazy sandstone at the Hog's Back, near Ottawa [Ont.]. Ottawa Nat 22: 105–115, il (1908)

**09** Description of a new species of ammonite, of the genus *Stepheoceras,* from some rocks of presumably Jurassic age in the Nicola Valley, B. C. Ottawa Nat 23: 21–23, il (1909)

**09a** Notes on some fossils from the Cambro-Silurian and Silurian rocks of the Albany River drainage system in northwestern, Ontario. Can G S, Report on a portion of Algoma and Thunder Bay districts, Ontario, by W. J. Wilson: 34–41 (1909)

**10** Preliminary list of fossils from the supposed Utica or Lorraine shales at St. Bruno Mountain, Chambly County, Quebec, collected by J. A. Dresser and R. Harvie, jr., in 1905. Can G S, Mem 7: 24–28 (1910)

See also Matthew (G F), 86

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**00** (with **Chatard,** T. M.) An examination of the ores of the Republic gold mine, Wash. Am I M Eng, Tr 30: 419–423 (1901) Eng M J 69: 497–498 (1900)

**Whitehead,** Walter Lucius.

**14** (with **Lindgren,** W.) A deposit of jamesonite near Zimapan, Mexico. Ec G 9: 435–462 (1914)

**16** The paragenesis of certain sulphur intergrowths. Ec G 11: 1–13 (1916)

**17** Notes on the technique of mineragraphy. Ec G 12: 697–716 (1917)

**Whitehill,** Henry R.

**73** Biennial report of the State mineralogist of the State of Nevada for the years 1871 and 1872. 191 pp, Carson City 1873; ... for 1873 and 1874: 191 pp, Carson City 1875; ... for 1875 and 1876: 226 pp [Carson City 1877]; ... for 1877 and 1878: 212 pp, San Francisco 1879

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**12** The Trinidad district in Colorado. Coal Age 1: 632–635 (1912)

**12a** Central coal fields in Colorado. Coal Age 2: 2–5 (1912)

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**12b** Coal measures of the Front Range of the Rocky Mountains in Colorado. Colo, Univ, J Eng no 8: 50–55 (1912)

**17** Yampa coal field in Colorado. Coal Age 11: 654–657 (1917)

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**87** On the Johnson Co., Ark., and Allen Co., Ky., meteorites. Am J Sc (3) 33: 500–501 (1887)

**87a** Analyses of some natural borates and borosilicates. Am J Sc (3) 34: 281–287 (1887)

**87b** The Rockwood meteorite [Tenn.]. Am J Sc (3) 34: 387–390 (1887)

**88** (and **Merrill,** G. P.) The Fayette Co., Tex., meteorite. Am J Sc (3) 36: 113–119 (1888)

**88a** (with **Gooch,** F. A.) Analyses of waters of the Yellowstone National Park. U S G S, B 47: 84 pp (1888)

**89** A new meteorite from Mexico. Am J Sc (3) 37: 439–440 (1889)

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**62** (with **White,** C. A.) Observations upon the rocks of the Mississippi Valley which have been referred to the Chemung group of New York, together with descriptions of new species of fossils from the same horizon at Burlington, Iowa. Boston Soc N H, Pr 8: 289–306 (1862)

**65** Descriptions of new species of Eocene fossils. Am J Conch 1: 259–268, il (1865)

**67** Observations on the internal appendages of the genus *Atrypa.* N Y St Cab, An Rp 20: 141–144 (1867)

**72** (with **Hall,** J.) Description of new species of fossils from the vicinity of Louisville, Ky., and the Falls of the Ohio. N Y St Mus, An Rp 24: 181–200 (1872)

**72a** (with **Hall,** J.) Remarks on some peculiar impressions in sandstone of the Chemung group, N. Y. N Y St Mus, An Rp 24: 201–204, il (1872)

**73** (with **Hall,** J.) Descriptions of new species of fossils from the Devonian rocks of Iowa. N Y St Cab, An Rp 23: 223–239 (1873)

**73a** (with **Hall,** J.) Notice of three new species of fossil shells from the Devonian of Ohio. N Y St Cab, An Rp 23: 240–241 (1873)

**73b** (with **Hall,** J.) Notice of two new species of fossil shells from the Potsdam sandstone of New York. N Y St Cab, An Rp 23: 241–242 (1873)

**75** Descriptions of new fossils. *In* Ludlow, William, Report of a reconnaissance of the Black Hills of Dakota...: 103–104, il, Washington 1875 *Also in* U S, Chief Eng, An Rp 1875 pt 2: 1202–1203, il (1875)

**75a** Fossils from the black slate formations of southern Indiana and adjacent portions of Kentucky. Ind G S, An Rp 6: 179–182 (1875)

**Whitfield, Robert Parr**—Continued.

**75b** (with **Hall, J.**) Descriptions of invertebrate fossils, mainly from the Silurian system. Ohio G S, Rp 2 pt 2 Poleontology : 65–157, ill (1875)

**75c** (with **Hall, J.**) Crinoids of the Genesee slate and Chemung group. Ohio G S, Rp 2 pt 2 Paleontology : 158–161, il (1875)

**75d** (with **Hall, J.**) Crinoidea of the Waverly group. Ohio G S, Rp 2 pt 2 Paleontology : 162–179, il (1875)

**76** Descriptions of new species of fossils. *In* Ludlow, Wm., Report of a reconnaissance ... to the Yellowstone National Park : 126–131, il, Washington 1876 *Also in* U S [War Dp], Chief Eng, An Rp 1876 (U S, 44th Cong 2d sess, H Ex Doc 1 pt 2 v 2 pt 3) App NN : 694–699, il (1876)

**77** Preliminary report on the paleontology of the Black Hills, containing descriptions of new species of fossils from the Potsdam, Jurassic, and Cretaceous formations of the Black Hills of Dakota. U S Geog G S Rocky Mtn Reg (Powell) : 49 pp, Washington 1877

**77a** (with **Hall, J.**) Paleontology. U S G Expl 40th Par (King), 4 : 197–302, il (1877)

**78** Preliminary descriptions of new species of fossils from the lower geological formations of Wisconsin. Wis G S, An Rp 1877 : 50–89 (1878)

**78a** Remarks on some lamellibranchiate shells of the Hudson River group with descriptions of four new species. Cin Soc N H, J 1 : 137–141, il (1878)

**79** Discovery of specimens of *Maclurea magna*, of the Chazy, in the Barnegat limestone near Newburg, N. Y. Am J Sc (3) 18 : 227 (1879)

**80** Paleontology of the Black Hills of Dakota. *In* Newton, Henry, and Jenney, Walter P., Report on the geology and resources of the Black Hills of Dakota (U S Geog G S Rocky Mtn Reg) : 325–468, il (1880)

**80a** Descriptions of new species of fossils from the Paleozoic formations of Wisconsin. Wis G S, An Rp 1879 : 44–71 (1880)

**80b** Notice of new forms of fossil crustaceans from the upper Devonian rocks of Ohio, with descriptions of new genera and species. Am J Sc (3) 19 : 33–42, il (1880)

**80c** On the occurrence of true *Lingula* in the Trenton limestones. Am J Sc (3) 19 : 472–475, il (1880)

**80d** Notice of the occurrence of rocks representing the Marcellus shale of New York, in central Ohio. Am As, Pr 28 : 297–299 (1880)

**81** Description of a new species of crinoid from the Burlington limestone, at Burlington, Iowa. Am Mus N H, B 1 : 7–9, il (1881)

**Whitfield, Robert Parr**—Continued.

**81a** Remarks on *Dictyophyton*, and descriptions of new species of allied forms from the Keokuk beds, at Crawfordsville, Ind. Am Mus N H, B 1 : 10–20, il (1881)

**81b** Observations on the purposes of the embryonic sheaths of *Endoceras*, and their bearing on the origin of the siphon in the Orthocerata. Am Mus N H, B 1 : 20–28, il (1881)

**81c** Notice of a new genus and species of air-breathing mollusk from the Coal Measures of Ohio, and observations on *Dawsonella*. Am J Sc (3) 21 : 125–128, il (1881)

**81d** Observations on the structure of *Dictyophyton* and its affinities with certain sponges. Am J Sc (3) 22 : 53–54 (1881)

**81e** On the nature of *Dictyophyton*. Am J Sc (3) 22 : 132 (1881)

**82** On the fauna of the Lower Carboniferous limestones of Spergen Hill, Ind... Am Mus N H, B 1 : 39–97, il (1882)

**82a** Paleontology. [Wis G S], G Wis 4 : 161–363, il (1882)

**82b** Descriptions of new species of fossils from Ohio, with remarks on some of the geological formations in which they occur. N Y Ac Sc, An 2 : 193–244 (1882)

**83** List of Wisconsin fossils. [Wis G S], G Wis 1 : 362–375 (1883)

**83a** Observations on the fossils of the metamorphic rocks of Bernardston, Mass.; with note by J. D. Dana. Am J Sc (3) 25 : 368–369 (1883)

**84** Notice of some new species of Primordial fossils in the collections of the Museum, and corrections of previously described species. Am Mus N H, B 1 : 139–154, il (1884)

**85** Brachiopoda and Lamellibranchiata of the Raritan clays and greensand marls of New Jersey. N J G S, Pal 1 : xx, 338 pp, map, il (1886) U S G S, Mon 9 : xx, 338 pp, map il (1885)

**85a** On a fossil scorpion from the Silurian rocks of America. An Mus N H, B 1 : 181–190, il (1885)

**85b** Notice of a new cephalopod from the Niagara rocks of Indiana. Am Mus N H, B 1 : 191–192, il (1885)

**85c** Notice of a very large species of *Homalonotus* from the Oriskany sandstone formation. Am Mus N H, B 1 : 193–195, il (1885)

**85d** An American Silurian scorpion [*Palaeophonus osborni*] Science 6 : 87–88, il (1885)

**85e** (with **Pohlman, J.**) An American Silurian scorpion. Science 6 : 183–184, il (1885)

**86** Notice of geological investigations along the eastern shores of Lake Champlain ... with descriptions of the new fossils discovered. Am Mus N H, B 1 : 293–345, map, il (1886)

**Whitfield,** Robert Parr—Continued.

**86a** Notice of a new fossil body, probably a sponge related to *Dictyophyton.* Am Mus N H, B 1 : 346–348, il (1886)

**86b** Remarks on the fossils [from central Montana] in the following lists. U S, 10th Census 15 : 712–718 (1886)

**86c** Professor Thorell and the American Silurian scorpion. Science 7 : 216–217 (1886)

**86d** ...molluscan fossils of the New Jersey marl beds...(*abst*). Am As, Pr 35 : 215 (1887) Am J Sc (3) 32 : 320–321 (1886)

**87** New Jersey Cretaceous. Am Nat 21 : 66–69 (1887)

**88** Evidence confirmatory of *Mastodon obscurus* Leidy, as an American species. Am As, Pr 36 : 252–253 (1888)

**89** Observations on some imperfectly known fossils from the Calciferous sandrock of Lake Champlain, and descriptions of several new forms. Am Mus N H, B 2 : 41–63, il (1889)

**89a** Additional notes on *Asaphus canalis,* Conrad. Am Mus N H, B 2 : 64–65 (1889)

**89b** Description of a new form of fossil balanoid cirripede from the Marcellus shale of New York. Am Mus N H, B 2 : 66–68 (1889)

**89c** Note on the faunal resemblance between the Cretaceous formations of New Jersey, and those of the Gulf States. Am Mus N H, B 2 : 113–116 (1889)

**90** Observations on the fauna of the rocks at Fort Cassin, Vt., with descriptions of a few new species. Am Mus N H, B 3 : 25–39, il (1890)

**90a** Observations on a fossil fish from the Eocene beds of Wyoming. Am Mus N H, B 3 : 117–120 (1890)

**90b** Description of a new genus of inarticulate brachiopodous shell [*Lingulodiscina*]. Am Mus N H, B 3 : 121–122, il (1890)

**90c** The Fort Cassin rocks and their fauna. G Soc Am, B 1 : 514–515 (1890)

**91** Contributions to invertebrate paleontology [of Ohio]. N Y Ac Sc, An 5 : 505–620, il (1891) Ohio G S, Rp 7 : 407–494, il (1893)

**91a** The common edible crab found fossil in the Hudson River tunnel. Science 18 : 300 (1891)

**91b** Mastodon remains on New York Island. Science 18 : 342 (1891)

**92** Gastropoda and Cephalopoda of the Raritan clays and greensand marls of New Jersey. N J G S, Pal 2 : 402 pp, il (1892) U S G S, Mon 18 : 402 pp, il (1892)

**92a** Visitor's guide to the geological and paleontological collections in the American Museum of Natural History. 68 pp, N Y 1892 [not seen]

**Whitfield,** Robert Parr—Continued.

**92b** Discovery of a second example of the macrouran decapod crustacean *Palaeopalaeomon newberryi.* Am G 9 : 237–238 (1892)

**93** Republication of descriptions of Lower Carboniferous Crinoidea from the Hall collection... Am Mus N H, Mem 1 : 1–37, il (1893)

**93a** Notice of new Cretaceous fossils from the lower green marls of New Jersey. Nautilus 7 : 37–39, 51–52, il (1893)

**94** Mollusca and Crustacea of the Miocene formations of New Jersey. U S G S, Mon 24 : 195 pp, il (1894)

**94a** On new forms of marine algae from the Trenton limestone, with observations on *Buthograptus laxus* Hall. Am Mus N H, B 6 : 351–358, il (1894)

**95** Republication of descriptions of fossils from the Hall collection... Am Mus N H, Mem 1 : 39–74, il (1895)

**96** Description of a new genus of fossil brachiopod from the Lower Helderberg limestones. Am Mus N H, B 8 : 231–232, il (1896)

**96a** Notice and description of new species and a new genus of Phyllocaridae. Am Mus N H, B 8 : 299–304, il (1896)

**97** Note on the hypostome of *Lichas* (*Terataspis*) *grandis* Hall. Am Mus N H, B 9 : 45–46, il (1897)

**97a** Descriptions of new species of Silurian fossils from near Fort Cassin [Vt.] and elsewhere on Lake Champlain. Am Mus N H, B 9 : 177–184, il (1897)

**97b** Descriptions of species of Rudistae from the Cretaceous rocks of Jamaica, W. I. Am Mus N H, B 9 : 185–196, il (1897)

**97c** Observations on the genus *Barrettia* Woodward, with descriptions of two new species. Am Mus N H, B 9 : 233–246, il (1897) *Abst,* Science n s 6 : 690 (1897)

**98** (assisted by **Hovey,** E. O.) Catalogue of the type and figured specimens in the paleontological collection of the geological department, American Museum of Natural History. Am Mus N H, B 1[illegible] : 500 pp (1898–1901)

**99** List of fossils, types and figured specimens used in the paleontological work of R. P. Whitfield, showing where they are probably to be found at the present time. N Y Ac Sc, An 12 : 139–186 (1899)

**00** Observations on some "mud flow" markings on rocks from near Albany, N. Y. Am Mus N H, B 12 : 183–187 (1900)

**00a** Observations on and descriptions of Arctic fossils. Am Mus N H, B 13 : 19–22, il (1900)

**00b** Description of a new crinoid from Indiana. Am Mus N H, B 13 : 23–24, il (1900)

**00c** Note on the principal type specimen of *Mosasaurus maximus* Cope. Am Mus N H, B 13 : 25–29, il (1900)

**Whitfield,** Robert Parr—Continued.

**01** Note on a very fine example of *Helicoceras stevensoni* preserving the outer chamber. Am Mus N H, B 14 : 219, il (1901)

**02** Description of a new form of *Myalina* from the Coal Measures of Texas. Am Mus N H, B 16 : 63–66, il (1902)

**02a** Observations on and emended description of *Heteroceras simplicostatum* Whitfield. Am Mus N H, B 16 : 67–72, il (1902) *Abst,* Science n s 15 : 469 (1902)

**02b** Description of a new teredo-like shell from the Laramie group. Am Mus N H, B 16 : 73–76, il (1902) *Abst,* Science n s 15 : 469 (1902)

**02c** Notice of a new genus of marine algae, fossil in the Niagara shale. Am Mus N H, B 16 : 399–400, il (1902)

**03** Notice of six new species of unios from the Laramie group. Am Mus N H, B 19 : 483–487, il (1903)

**03a** Observations on a remarkable specimen of *Halysites* and description of a new species of the genus. Am Mus N H, B 19 : 489–490, il (1903)

**04** Notice of a new genus and species of Lower Carboniferous bryozoan [*Dictyoretmon burlingtonense*]. Am Mus N H, B 20 : 469, il (1904)

**04a** Notice of a remarkable case of reproduction of lost parts shown on a fossil crinoid. Am Mus N H, B 20 : 471–472, il (1904)

**04b** Note on some worm (?) burrows in rocks of the Chemung group of New York. Am Mus N H, B 20 : 473–474, il (1904)

**05** Notice of a new crinoid and a new mollusk from the Portage rocks of New York. Am Mus N H, B 21 : 17–20, il (1905)

**05a** Descriptions of new fossil sponges from the Hamilton group of Indiana. Am Mus N H, B 21 : 297–300, il (1905)

**05b** Notice of a new species of *Fasciolaria* from the Eocene green marls at Shark River, N. J. Am Mus N H, B 21 : 301–303, il (1905)

**06** (and **Hovey,** E. O.) Remarks on and descriptions of [invertebrate] Jurassic fossils of the Black Hills. Am Mus N H, B 22 : 389–402, il (1906)

**07** Notice of an American species of the genus *Hoploparia* McCoy, from the Cretaceous of Montana. Am Mus N H, B 23 : 459–461, il (1907)

**07a** Remarks on and descriptions of new fossil Unionidæ from the Laramie clays of Montana. Am Mus N H, B 23 : 623–628, il (1907)

**08** Notes and observations on Carboniferous fossils and semifossil shells brought home by members of the Peary expedition of 1905–1906. Am Mus N H, B 24 : 51–58, il (1908)

See also Booth, 83 ; Smith (E A), 88a

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**14** On a new fossil fungus from the Nebraska Pliocene. Nebr Univ Studies 14 : 181–183, il (1914)

**16** Some plant cuticles from the Graneros shale [Jefferson Co., Nebr.]. Nebr G S 7 : 77–82, il (1916)

**16a** A description of two new fossil fungi. Nebr G S 7 : 85–92, il (1916)

**16b** Preserved epidermis from the Carboniferous of Nebraska. Nebr G S 7 : 93–101, il (1916)

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**38** Cursory remarks upon east Florida in 1838. Am J Sc 35 : 47–64 (1838)

**Whitlock,** Herbert Percy.

**02** Guide to the mineralogic collections of the New York State Museum. N Y St Mus, B 58 : 3–147 (1902)

**03** List of New York mineral localities. N Y St Mus, B 70 : 108 pp (1903)

**05** Contributions from the mineralogic laboratory. N Y St Mus, B 98 : 36 pp (1905)

**05a** Minerals not commercially important. N Y St Mus, An Rp 57 : 180–192 (1905)

**06** Books of reference on geology and paleontology. Cong Arts and Sc (St Louis 1904) 4 : 757–759 (1906)

**07** Minerals from Lyon Mountain, Clinton Co. [N. Y.]. N Y St Mus, B 107 : 55–96 (1907)

**07a** Kalkspat von Lyon Mountain, Clinton Co., N. Y. Zs Kryst 43 : 321–330 (1907)

**07b** Some new crystallographic combinations of calcite from West Paterson, N. J. Am J Sc (4) 24 : 426–428 (1907)

**[illegible]** Some parallel groupings of calcite crystals from the New Jersey trap region. N Y St Mus, B 133 : 217–221 (1909)

**10** Calcites of New York. N Y St Mus, Mem 13 : 190 pp (1910)

**10a** Contributions to mineralogy. N Y St Mus, B 140 : 197–203 (1910)

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**10c** A list of new crystal forms of minerals. Sch Mines Q 31 : 320–345 ; 32 : 51–92 (1910)

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**04** The Brandon clays. Vt, St G, Rp 4 : 167–173 (1904)

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**65e** (with **Meek,** F. B.) Contributions to the paleontology of Illinois and other Western States. Ac N Sc Phila, Pr 1865 : 245–273

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**66a** Geology of Randolph Co.; St. Clair Co.; Madison Co.; Hancock Co. Ill G S 1 : 278–349 (1866); Ec G 1 : 210–290 (1882)

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**66c** Remarks on the occurrence of fossil fishes in Illinois. Ill G S 2 : 11–16 (1866)

**66d** (with **Meek,** F. B.) Introduction to volume II, Paleontology [includes discussion of nomenclature of Illinois formations]. Ill G S 2 : iii–xix (1866)

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**68** Coal Measures and Lower Carboniferous limestones. Ill G S, 3 : 1–19 (1868)

**68a** Geology of Alexander Co.; Union Co.; Jackson Co.; Perry Co.; Jersey Co.; Greene Co.; Scott Co. Ill G S, 3 : 20–144 (1868); Ec G 1 : 456–531; 2 : 1–71 (1882)

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**71b** [On the occurrence of the mammoth and mastodon.] Am Nat 5: 606–607 (1871)

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**73a** Geology of Peoria Co.; McDonough Co.; Monroe Co; Macoupin Co.; Sangamon Co. Ill G S 5: 235–319 (1873); Ec G 3: 246–337 (1882)

**73b** (with **Meek,** F. B.) Descriptions of invertebrates from Carboniferous system. Ill G S 5: 321–619, il (1873)

**75** Coal Measures. Ill G S 6: 1–8 (1875)

**75a** Geology of Clark Co.; Crawford and Jasper cos.; Lawrence and Richland cos.; Wabash and Edwards cos.; White and Hamilton cos.; Wayne and Clay cos.; Cumberland, Coles, and Douglas cos.; Williamson and Franklin cos. Ill G S 6: 9–127 (1875); Ec G 3: 337–467 (1882)

**75b** Geological map of the State of Illinois. Scale, 6 miles to 1 inch. Accompanies vol. 6, 1875

**75c** (with **Meek,** F. B.) Descriptions of invertebrates. Ill G S, 6: 489–532, il (1875)

**75d** (with **St. John,** O. H.) Descriptions of fossil fishes. Ill G S, 6: 245–488, il (1875)

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**82** Descriptions of fifty-four new species of crinoids from the Lower Carboniferous limestones and Coal Measures of Illinois and Iowa. Ill St Mus N H, B 1: 3–38 (1882)

**82a** Corrections and proposed new names for species described in the geological reports of Illinois, under names that were preoccupied; and descriptions of two new species of fossil shells from the Coal Measures of Illinois and Kansas. Ill St Mus N H, B 1: 38–40 (1882)

**83** Economical geology; Notes on La Salle Co. Ill G S 7: 1–51 (1883)

**83a** Description of fossil invertebrates. Ill G S 7: 265–322, il (1883)

**83b** Descriptions of some new species of fossil shells from Lower Carboniferous limestones and Coal Measures of Illinois. Ill G S 7: 323–326 (1883)

**83c** (and **Miller,** S. A.) Descriptions of new Carboniferous echinoderms. Ill G S 7: 327–338, il (1883)

**83d** (with **St. John,** O. H.) Descriptions of fossil fishes. Ill G S 7: 55–264, il (1883)

**84** Descriptions of two new species of Crustacea, fifty-one species of Mollusca, and three species of crinoids, from the Carboniferous formations of Illinois and adjacent states. Ill St Mus N H, B 2: 27 pp (1884)

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**90b** Description of fossil invertebrates. Ill G S 8: 69–154, il (1890)

**90c** Approximate geological map of the State of Illinois, reduced from the map published in 1875 with vol. VI. Scale, 32 miles to one inch. Ill G S 8 (1890)

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**82a** On the origin and development of the existing horses. Kansas City Rv Sc 5: 719–726; 6: 67–75, il (1882)

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**93k** Evidences of glacial man in Ohio. Pop Sc Mo 43 : 29–39 (1893)

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**96b** Fresh relics of glacial man at the Buffalo meeting of the A. A. A. S. Am Nat 30 : 781–784 (1896)

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**96d** High-level terraces of the middle Ohio and its tributaries (*abst*). Am G 17 : 103 (1896) Science n s 3 : 55 (1896)

**97** Special explorations in the implement-bearing deposits on the Lalor farm, Trenton, N. J. Science n s 6 : 637–645 (1897)

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**98a** Glacial observations in the Champlain-St. Lawrence Valley. Am G 22 : 333–334 (1898)

**98b** Clayey bands of the glacial delta of the Cuyahoga River at Cleveland, Ohio, compared with those of the implement-bearing deposits of the glacial delta at Trenton, New Jersey (*abst*). Am G 22 : 250 (1898) Science n s 8 : 464 (1898)

**98c** Supposed "corduroy road" of late glacial age, at Amboy, Ohio (*abst*). Am As, Pr 47 : 298 (1898) Am G 22 : 259 (1898) Science n s 8 : 470 (1898)

**98d** The age of Niagara Falls as indicated by the erosion at the mouth of the gorge (*abst*). Am As, Pr 47 : 299–300 (1898) Am G 22 : 260–261 (1898) Science n s 8 : 502 (1898)

**98e** A recently discovered cave of celestite crystals at Put-in-Bay, Ohio (*abst*). Am As, Pr 47 : 300 (1898) Am G 22 : 261 (1898) Science n s 8 : 502–503 (1898)

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